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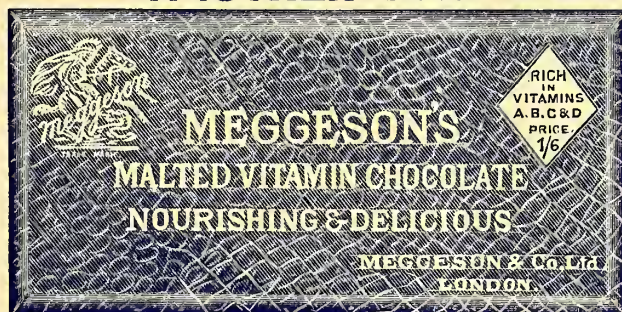
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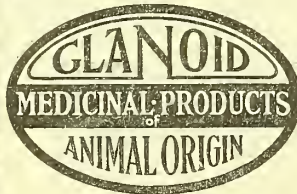
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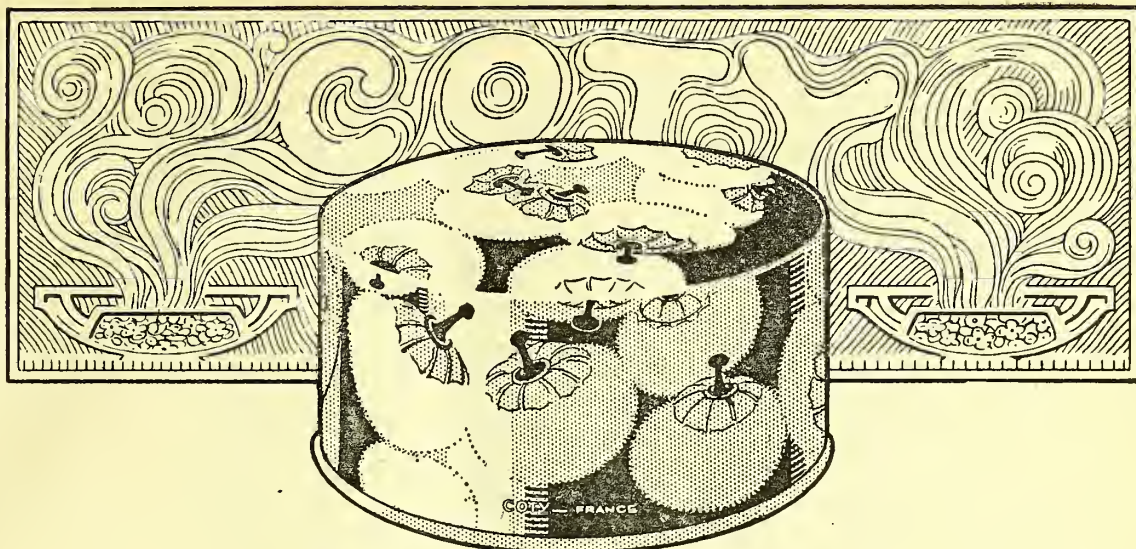
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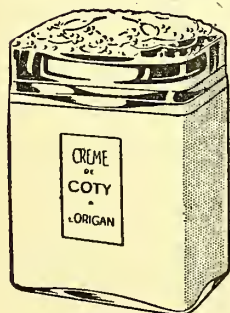
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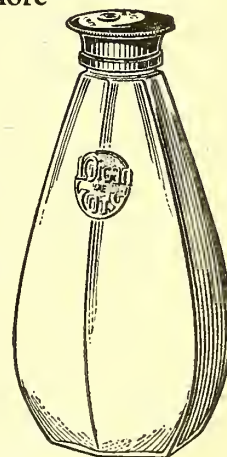
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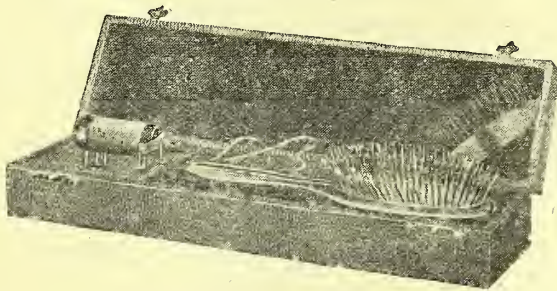
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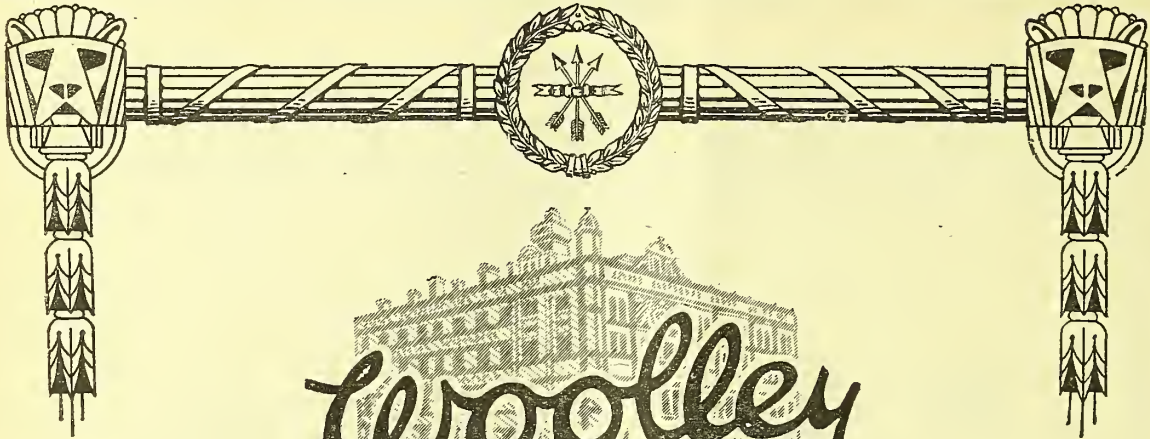
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20 oz.	28/-	27/-



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<i>For grey and faded hair.</i>		
LIQUID PERGOL	22/6	2/6
<i>To check excessive perspiration locally.</i>		
BICROLIUM	31/6	3/6
<i>For whitening the hands.</i>		
COCONOIDS	22/6	2/6
<i>For figure development.</i>		
SIPOLITE	31/6	3/6
<i>A new depilatory.</i>		

The Products of

Messrs. PARKER, BELMONT & CO.

GLYNOL BERRIES	36/-	4/-
<i>For obesity.</i>		
SOFT PALERIUM	45/-	5/-
<i>For wrinkles.</i>		
LIQUID NAIL POLISH	10/-	1/-
<i>Brilliant and lasting.</i>		

Stocked by ALL Wholesale Houses.

FOREIGN AND COLONIAL DEPÔTS AND AGENCIES.

- South Africa: LENNON, LTD., Cape Town, etc.
SIVE BROS., & KARNOVSKY, LTD., Johannesburg.
- India: FRAMJEE & SON, Bombay.
A. L. CHOUDRY, Calcutta.
- New Zealand: SHARLAND & CO., Auckland and Wellington.
- Irish Free State: MAY, ROBERTS & CO., LTD., Dublin.

LOOK to YOUR STOCK FOR BANK HOLIDAY WEEK

WE are closing our works during the whole of August Bank Holiday week (except for urgent orders). We would, therefore, kindly ask all our customers to make a point of replenishing their stock as early as possible. If you are not already stocking, order a supply to-day. Anzora is always in great demand.

ANZORA *Masters the Hair!*



Anzora Cream for greasy scalps.
Anzora Viola for dry scalps.

TRADE TERMS:

12/- dozen; retail at 18/-
20/- dozen; retail at 30/-

Obtainable from Wholesalers.
Write for a supply of attractive cutouts, showcards, etc., sent post free.

If unobtainable from your wholesaler write direct to:
ANZORA PERFUMERY CO., LTD.

Willesden Lane, London, N.W.6

Beethams Larola Toilet Preparations

New attractive packs

- "LAIT LAROLA"
- "LAROLA" LILY BLOOM
- "LAROLA" ROSE BLOOM
- "LAROLA" FACE POWDER
- BEETHAM'S GLYCERINE & CUCUMBER

Link up with the NATIONAL ADVERTISING

Special display terms on request from:
M. BEETHAM & SON
Dept. C.D. CHELTENHAM



Yours!

£300

or less.

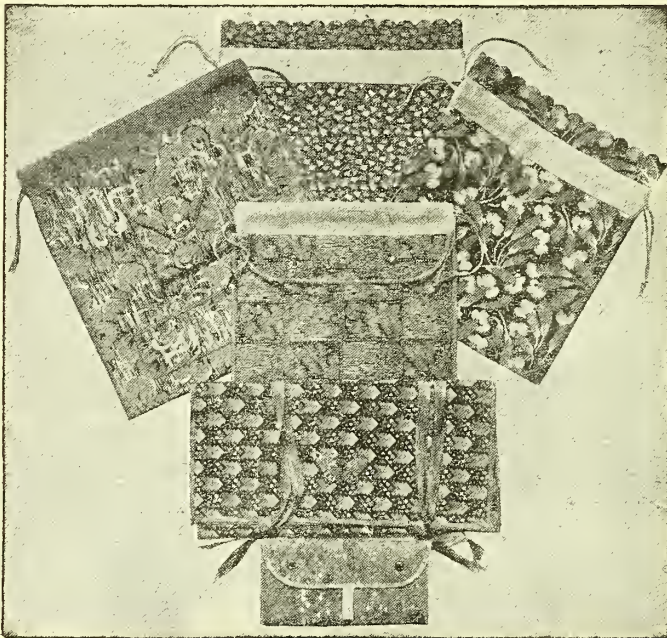
WE frequently are asked what amount of capital is necessary for stocking a new Pharmacy. In our experience a comprehensive and modern business could be well stocked for £300. For a well balanced, adequately stocked business the outlay could reasonably be estimated at £200. If you contemplate establishing a New Pharmacy or Branch establishment, we invite you to ask for the Publication referred to opposite.

AYRTON, SAUNDERS & CO., LTD., have just published under the title of "A New Pharmacy" a booklet of 36 pages dealing in detail with a "setting up" order, based on their extraordinarily wide experience in this direction. The sections are each detailed and the separate costs estimated for Drugs, Packed Goods, Tablets and Pills, Chemists' Sundries, Equipment (Shop Rounds, Utensils, etc.), Patent Medicines and Proprietaries.

*You find the spot,
We set up the shop,
and hand you the KEY, ready to open.*

AYRTON SAUNDERS & Co. LTD.
34 Hanover Street LIVERPOOL

“RIVIERA”



**SPONGE BAGS
TOILET
HOLDALLS
TRAVELLING
COMPANIONS**

*The most delightful
range ever offered*

SPECIFY

“RIVIERA”

SOLPORT
BROTHERS LIMITED

184 TO 190 GOSWELL ROAD,
LONDON, E.C.1

**GUARD
YOURSELF**
against stings from
MOSQUITOS · MIDGES · GNATS & OTHER INSECTS
by using

Small
Size

5/-
per
dozen



Large
Size

8/-
per
dozen

MANUFACTURED BY

WILLIAM TOOGOOD LIMITED

77 SOUTHWARK STREET - LONDON, S.E.1



Drink your own health every day in

MINERAL SPRING

A REFRESHING
NATURAL LAXATIVE

1½

2½

This cut-out showcard will look well on your counter. It is 14½" high and well printed in 10 colours. A copy will be included with your order or sent post free on request.

To EXPORT BUYERS—All orders and enquiries should be addressed to our Sole Export Agents
Wm. ALFRED JONES Ltd., West India House, Liverpool

THOMAS KERFOOT & CO LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

D/228

COPYRIGHT



Replenish your stock with MERMAID.

An Innovation in FACE CLOTHS

**BUY
BRITISH
GOODS**

This New and Better Face Cloth has had a wonderful reception. Its super quality, delightful colourings, Handsome Display Box and competitive price makes it the best line in Face Cloths on the market. When next ordering face cloths specify MERMAID. You will be pleased and so will your customers.

PRICES:

- No. 1. Tinted, Whipped Edging - 4/9 doz.
No. 2. White, Shell Stitched Edging 5/6 doz.

THE
Mermaid
FACE CLOTHS

Obtainable from Leading Wholesale Houses.

SPENCER BROS. Manufacturers of Toilet Sundries,
39-40 Shoe Lane, Holborn Circus, LONDON, E.C.4
Telephone: CENTRAL 3469.

Established 1795.

LAUTIER FILS

Works: GRASSE (France) & BEYRUT (Syria).

Essential Oils and Synthetics.
All Raw Materials for Perfumery.

Olive, Peach Kernel, Sweet Almond Oils
Floral Waters.

Sole Agents for:—

PAOLO VILARDI Messina Oils:
Lemon, Bergamote, Sweet Orange, etc.

S.A. FLORFE Spanish Oils:
Spike Lavender, Rosemary, Thyme,
Pennyroyal, etc.

C. MINTCHEFF & KETCHEDJIEFF
Otto of Rose. Bulgarian.

Wholesale and Export only.

LAUTIER FILS, Ltd., 4 Denman St., London B.1., S. E. 1
Tel. Add: "Lautier, Phone. London." Telephone: Waterloo 1601/2

NEROLI & ORANGE FLOWER PRODUCTS

Our complete range of Artificials will allow a cheap replacement in many formulas, which will become necessary owing to the advance in price of the naturals, due to the severe weather having had disastrous effects on the trees.

NEROLI SUPREME
NEROLI. K.

NEROLI. R.

NEROLI SUPERIOR
NEROLI EXTRA
NEROLI. S.

ORANGE BLOSSOMS 1244
ORANGE BLOSSOMS 1247

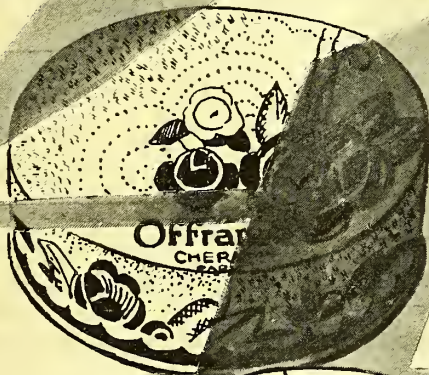
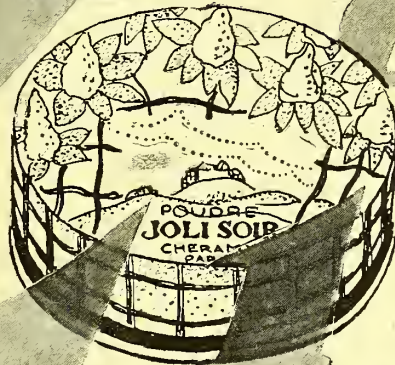
AURANOL FLORA (Orange blossoms novelty)
FLEURANGEOLE 1396 } New bases for
FLEURANGEOL S 1397 } Orange Blossoms.

A range of Samples and Prices on application.

CHAS. ZIMMERMANN & CO. (Chemicals), LTD.
St. Mary-at-Hill, London, E.C.3.

CHERAMY powder

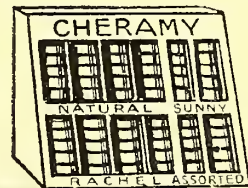
4 1/2 d



Never before has a famous make of Powder been offered at this price. It assures a large and ready sale.

A handsome Display Cabinet - given free with an order of one gross - further facilitates sales.

In the perfumes of :
JOLI SOIR
OFFRANDE
CAPPI
FAUSTA



CHERAMY

PARIS

PARFUMERIES DE PARIS Ltd
(LARDEN ROAD) ACTON - LONDON W.3

An easy line that makes 33 1/3% Profit for you

SOUPLEX—THE BEST BRITISH RAZOR BLADE

One third of the Souplex Retail Price goes to the retailer. Why shouldn't you get your share? Souplex Blades grow more and more popular. Men who buy Souplex come back over and over again with repeat orders. The excellence of a Souplex shave brings your customers to you.

But you must do two simple things. Put a Souplex Showcard in your window. Display Souplex prominently on your counter. Then you'll sell Souplex and win the 33 1/3% profit that comes on every Souplex sale.



WHOLESALE PRICE
20/- per box of 120
RETAIL PRICE
5 for 1/3
10 for 2/6

SOUPLEX, LTD. **SOUPLEX** MORECAMBE, LANCS.

Are you missing—
or making—that
50% profit on
Myatt Blades?
They are being asked
for more and more
every day.

Ask your wholesaler for

MYATT

PATENT DAYMARK Blades

For Gillette Type Razors only.
Supplied under Government Contract
to the British Army.

Sole Manufacturers:
W. J. MYATT & CO., LTD.,
Argent Works, BIRMINGHAM.

London Offices: 93-94 Hatton Garden, E.C.1

FIVE for 1/3
TEN for 2/6
Less
33 1/3%
A PROFIT of
50%
ON COST.



A
**KEEN
BLADE**
AT A
**KEEN
PRICE**

The Blade that SELLS as it SHAVES—
"LIKE GREASED LIGHTNING!"

Obtainable from all Leading Wholesalers.

Dept. C.D. "Wanie" Distributors:
c/o ROEBUCK'S ADVERTISING SERVICE
Salisbury Square House, Salisbury Sq., Fleet St., London, E.C.4

HAIR

BURMAN CLIPPERS

For SURGICAL
and VETERINARY
PURPOSES.

HAIRDRESSERS' CLIPPERS

The British-Made
Hair Clipper.



Dainty Shingling
Clippers for
Ladies' use.

BURMAN & Sons, Ltd., BIRMINGHAM

Display
“MOORLAND”
HEART-SHAPE
Tablets

and increase your holiday profits with
 these wonderful quick sellers

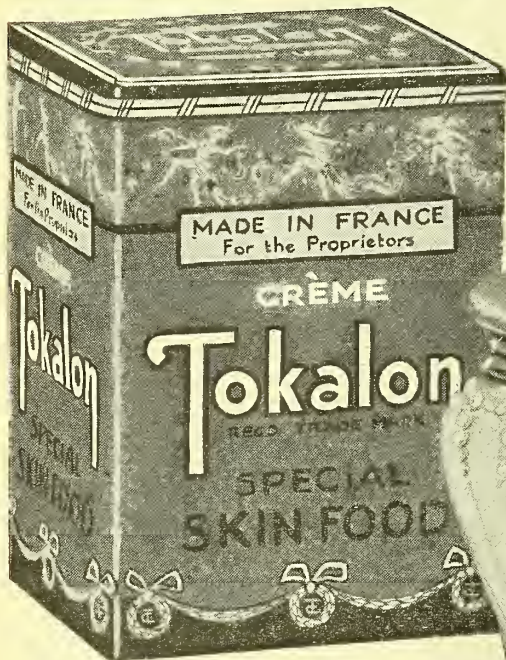


Exceptionally good showmatter supplied
 W. B. CARTWRIGHT LTD. RAWDON NEAR LEEDS

100% PROFIT ON

TOKALON SKIN FOODS

LARGELY ADVERTISED



THE NEW SKIN FOODS

Tokalon Skin Food, made by our associated house in Paris, has created sales records in France hitherto undreamed of. It is now to be sold and largely advertised here under a unique "£1,000 guarantee." Tokalon Skin Foods (Night—Rose Colour), (Day—White) retail at popular prices, 1/3 and 1/- respectively.

NIGHT SKIN FOOD
(ROSE COLOUR) ... **1'3**
One Size only

BIG ADVERTISING

Advertising on a big scale has been planned in National and local daily and weekly newspapers, women's magazines. Every important publication will carry "Skin Food" advertisements.

TAKE ADVANTAGE
OF THIS
SPECIAL OFFER NOW!



DAY SKIN FOOD
(WHITE) ... **1'-**
One Size only...

OUTLAY FOR YOU!

SPECIAL OFFER

One order for Tokalon Skin Foods will be executed any time prior to August 15th, 1929, subject to AN EXTRA DISCOUNT OF 25%. This, in addition to the usual Trade Discounts, makes a total profit of 97.46%—thus practically

YOU DOUBLE YOUR MONEY

One order only from each customer will be executed upon this basis. Orders must be for not less than 2 dozen either White Skin Food or Rose Skin Food (or assorted).

POST THIS ORDER FORM TO-DAY!

ORDER FORM

TOKALON, LTD., 212/4 Great Portland Street, London, W.1

Please forward Tokalon Skin Food under special "1st order" extra discount offer as under:—

.....doz. Tokalon Day Skin Food (white) @ 9/- per doz.
less * 10% display allowance and SPECIAL 25%

.....doz. Tokalon Night Skin Food (rose colour) @ 11/3 per dozen.
less * 10% display allowance and SPECIAL 25%

I undertake to make a prominent display of Skin Food for at least 14 days.

Signed

Address

If goods are to be invoiced through a wholesaler give name and address:

* Subject to signing Display Agreement.

6^d PROFIT ON A 1/2 SALE

7^{1/2} PROFIT ON A 1/3 SALE

MASQUE ROUGE FACE POWDER

There are Face Powders—and Face Powders. See that *your* Customers get the *best*. Supply them with Masque Rouge. Send postcard for Price List, and note the handsome trade terms.

Parfums Marcel Guerlain, Ltd.
REGENT ARCADE HOUSE,
252-260 Regent St., LONDON, W.1

Sunshine Remedies

including the now famous

**ANTI-ACID TABLETS
"TOXINICON"**
for Rheumatic diseases

**GOLDEN-RAY
SHAVING SOAP**
the only soap with an Antiseptic Vaseline centre.

**SOLEIL D'OR PERFUME
AND TOILET PREPARATIONS**

WRITE FOR DESCRIPTIVE BOOKLET

Sunshine Remedies Ltd.
8 West Halkin Street, S.W.1
Telephone: Sloane 4133.

LONDON CHEMISTS ARE INVITED TO SEND THEIR "SUNRAY" PATIENTS TO OUR PRIVATE ROOMS. TRAINED STAFF IN ATTENDANCE.

Write for particulars

"ODENTIC" PLATE BRUSH

Regd. No. 417637

From all
Wholesalers.

Packed in 1/2-dozen Display Boxes.

Manufacturers:

W. R. Speer & Son (EST. 100 YEARS)
215 DALSTON LANE - - LONDON, E.8
Agent for S. Africa—C. GORDON DAVIES & CO.,
National Bank Buildings, Pritchard Street, Johannesburg.

G. B. KENT & SONS, LTD.

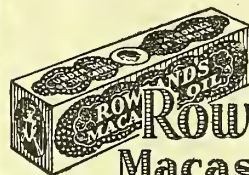
Are known the World over as
the Largest Manufacturers of

BEST BRITISH BRUSHES

Please write for full Particulars to—
75 FARRINGDON ROAD, E.C.1.

For thinning hair

Recommend Rowland's Macassar Oil, the favourite of 136 years. It keeps the hair healthy, and staves off greyness and baldness.



RETAIL,
3/6, 7/- & 10/6
P.A.T.A.

**Rowland's
Macassar Oil**
Red for dark hair
Golden for fair or grey hair

A. ROWLAND & SONS, Ltd., 112 Guilford St., London, W.C.1
RM2T

Offer this

When customers ask for a colour-restorer for grey hair, or a tonic to stop falling or to promote growth, offer

MORGAN'S POMADE

You may do so in full confidence that it will perform what it promises. 35 years' reputation, a world-wide trade, and thousands of testimonials support its claims to genuine merit.

Retail 1/9 and 3/3 per pot.
Wholesale 14/- and 26/- per doz.

THE MARIE ANTOINETTE CO. 149 JUNCTION ROAD, LONDON, N.19



Your teeth are
Ivory Castles—
Defend them with
Gibbs Dentifrice

Daily Mail

FOR KING AND COUNTRY

Your teeth are
Ivory Castles—
Defend them with
Gibbs Dentifrice

LONDON

MANCHESTER

PARIS

THURSDAY, JULY 25, 1929.

ONE PENNY

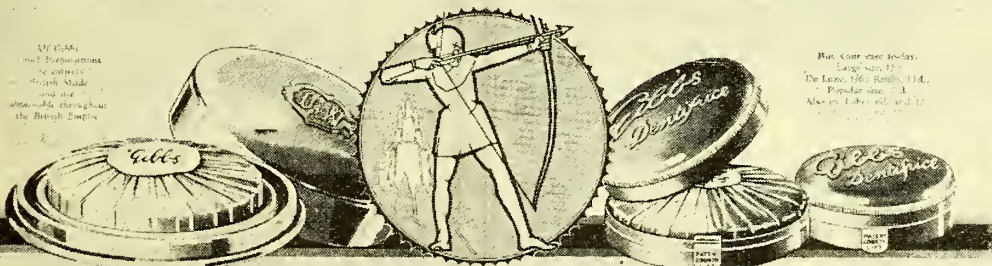


Healthy high spirits bubble over
when GIBBS DENTIFRICE

Another multi-million message about the original foaming dentifrice that penetrates every crevice to keep teeth really clean. Display Gibbs Dentifrice July 20-27 and win the business this Daily Mail page will make.

are Ivory Castles
—defend them with

Gibbs Dentifrice

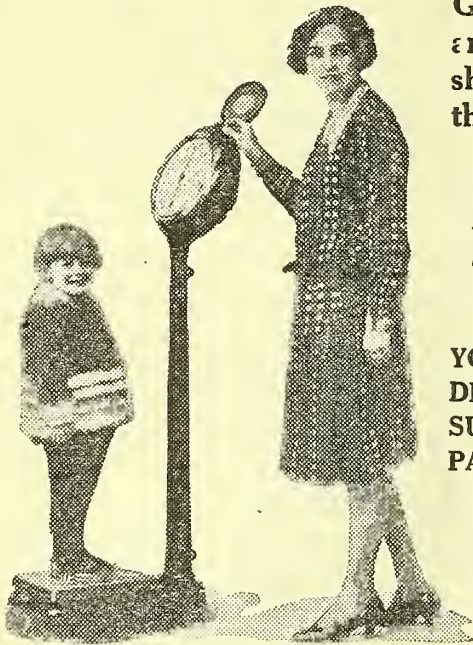


GIBBS
Tooth Preparation
in contact
with the
enamel and
is available throughout
the British Empire

Put your case to rest.
Large size 12/-
De Luxe 16/- Retail 14/-
Popular size 1/-
Also in Tubes 6/- and 12/-

H. & P. GIBBS, LTD., LONDON, E.C.

The Autoway Barometer of Health



Gives as good a return
and in most cases
shows a larger profit
than any line sold in
a pharmacy.

**PENNIES IN THE
SLOT PAY FOR
THE "AUTOWAY."**

**YOU PAY A SMALL
DEPOSIT AND THE
SUBSEQUENT TAKINGS
PAY THE MONTHLY
INSTALMENTS.**

SEND for ILLUSTRATIONS and PARTICULARS
AGENTS EVERYWHERE
AUTOWAY CO. 13 Wellington St., Glasgow

**BABIES ARE GOOD
CUSTOMERS.
PLEASE MOTHERS
BY WEIGHING THEIR
BABIES.**



This Handsome Infant
Weigher is
PRESENTED GRATIS
to every Chemist who
buys an "Autoway."

TOMLINSON & HAYWARD

LIMITED

51 NEWLAND, LINCOLN

Invite your enquiries for

**SHEEP DIPS
VETERINARIES
DISINFECTANTS
WEED KILLERS
HORTICULTURAL SUNDRIES
ALL AGRICULTURAL SUPPLIES**

Packed under your own name or our
special Brands

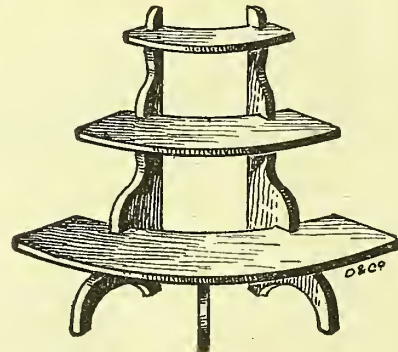
ESTABLISHED 1842

EUREKA WEED KILLER
Largest sale. Well advertised.
Sales through agents not direct.
The demand is now.

51 NEWLAND, LINCOLN

(ONLY ADDRESS)

A Useful Display Stand for the Chemist—



No. CDF 1974.

Solid Oak Plywood Display Stand. 3-tier. **10/6**
19½ ins. high, 20½ ins. wide, back to front 20 ins. Each

This Stand is supplied flat and boxed. To erect same fit all
the shelves into one side section first and then drop the
other side section on from the back.

Send for our full list No. C.D. 1115.

DUDLEY & COMPANY LTD.

451 HOLLOWAY ROAD, LONDON, N.7.

City Showrooms - - 65/66 FORE STREET, E.C.

POTTER & CLARKE

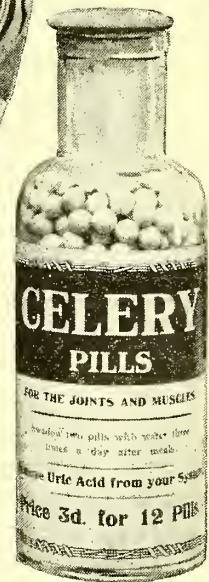
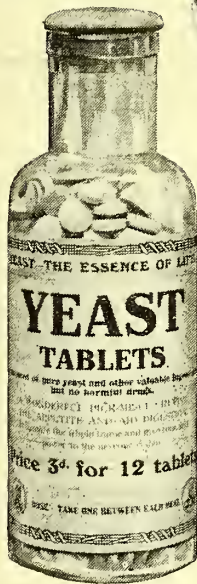
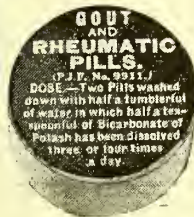
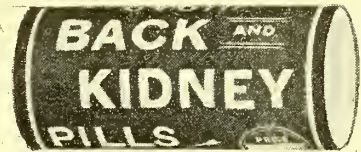
Manufacturing
Chemists

Drugs LIMITED
Merchants



The Sign of
The Winged Lion

Registered
Trade Mark



PILLS & TABLETS (Packed and Bulk)

PRICES, QUOTATIONS AND
SAMPLES ON REQUEST.

Our factory is equipped with the most
up-to-date plant & is under expert control.

ASK FOR OUR PRICE LISTS.

Phones
Bishopsgate
4761. (3 LINES)

Potter and



Clarke Ltd.

Grams
Horehound
Phone, London

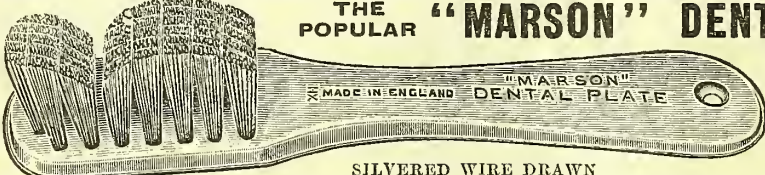
60-64 ARTILLERY LANE, LONDON, E.1.
MANCHESTER: 24 Luna St., Gt. ANCOATS.



JOHN BELL, HILLS & LUCAS LTD.

OXFORD WORKS, TOWER BRIDGE ROAD, LONDON, S.E.1.

130 years' reputation for purity and excellence.
Pharmaceutical preparations, Drugs and Chemicals of high quality.
Packed Goods of elegant finish and Choice of many styles.
Specialists in compounding and packing customers' private formulas.
Price List on application Telephone: Bermondsey 1141



THE POPULAR "MARSON" DENTAL PLATE BRUSH

IN STIFF UNBLEACHED BRISTLE
Best English Make. Packed in Cartons.
SAMPLES AND PRICES ON APPLICATION
C. F. MARSHALL & SON
Devonshire Works, Devonshire Rd.,
HACKNEY - LONDON, E.9

SILVERED WIRE DRAWN

FRED^K. FINK & CO.

10 & 11 MINGING LANE, LONDON, E.C.3.
TEL. : ROYAL 6094.

GUMS, ARABIC and TRAGACANTH as Imported or
Finely Powdered. :: SELLACS ALL GRADES.

OLIVE OIL

Producers—CHAFFARD & COUDERC,
MARSEILLES (France).
Sole distributors for Australia :
WILLMOTT, PRISK & CO., LTD.
ADELAIDE : 134 Grenfell Street ; SYDNEY : 379 Kent Street ;
MELBOURNE : 37 Swantson Street.



SHADEINE

FOR TINGING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses.
Trial size 8d. per doz. 6/-
1/4 size, per doz. 12/-
2/5 size, per doz. 24/-
3/8 size, per doz. 36/-

The SHADEINE CO., 58 Westbourne Grove, London, W.2



GREY HAIRS

← appear just here.

TOUCH THEM UP WITH

TATCHO-TONE

and they will instantly recover their natural shade. Medical Guaranty with each bottle. Chemists' Prices 2/6 and 4/6

TATCHO-TONE CO., 5 Great Queen Street, London. W.C.2

Trial Price

8^D

Post Free

IT PAYS TO PUSH

"GOLDEN EGG" SHAMPOOS

Reg. Trade Mark. Write for Terms and Show Material
GOLD SEAL PROPRIETARIES LTD., CROYDON

BUDNIP REMEDIES

—are excellent preparations—You can recommend them with every confidence—They show very good profits. Ask us for special terms. From your usual wholesaler, or direct from

BUDNIP Ltd., Budnip House, OLDHAM
Telephone - - - Oldham 2136

CHEMISTS' FITTINGS

OF EVERY DESCRIPTION.
NEW AND SECONDHAND.

E. BERG, LTD., 336 Old Street, E.C.1

FOR CHEMISTS' FITTINGS

Go to :—**R. TOMLINSON & SONS,**
Bond St., Constitutional Hill, BIRMINGHAM

NURSE HARVEY'S MIXTURE

A safe, simple and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessities from him. Moreover, the continuous demand for it produces a quick turnover.

For Direct Terms apply to—
OSCAR SCRUTON & CO., YORK

MANCHESTER TUTORIAL COLLEGE

327 OXFORD ROAD, MANCHESTER.

J. E. GRIME, B.A., B.D., Director of Studies.

REVISION COURSES, for PRELIMINARY SCIENTIFIC EXAM., start JULY 22nd, OCTOBER 8th.

FULL COURSES for PHARMACEUTICAL PRELIM.



YOUR Customers with Artificial Dentures Will Readily BUY IT.

THOS. CHRISTY & CO., 4/12 Old Swan Lane, London, E.C.4

*For Oral or
Hypodermic Use*

TRADE MARK **TABLOID** BRAND
**EPHEDRINE
HYDROCHLORIDE**

Gr. 1/4 (0.016 gm.)

Bottles of 25 and 100, at 13/-
and 39/- per dozen respectively (subject)

Gr. 1/2 (0.032 gm.)

Tubes of 6, at 7/6 per dozen (subject)

Bottles of 25 and 100, at 22/-
and 72/- per dozen respectively (subject)



Reduced facsimile

For Hypodermic Injection

TRADE MARK **'HYPOLOID'** BRAND
**EPHEDRINE
HYDROCHLORIDE**

0.03 gm. (gr. 1/2 approx.)

Boxes of ten 1 c.c. phials, at 36/- per dozen
(subject)

*For local application
to the Nose and Pharynx*

TRADE MARK **'VAPOROLE'** BRAND
**EPHEDRINE
SPRAY
COMPOUND**

Bottles of 1 fl. oz., 27/- per dozen (subject)

THE 'PAROLEINE' ATOMISER
IS THE MOST CONVENIENT
APPARATUS FOR THE USE OF
'VAPOROLE' EPHEDRINE
SPRAY COMPOUND

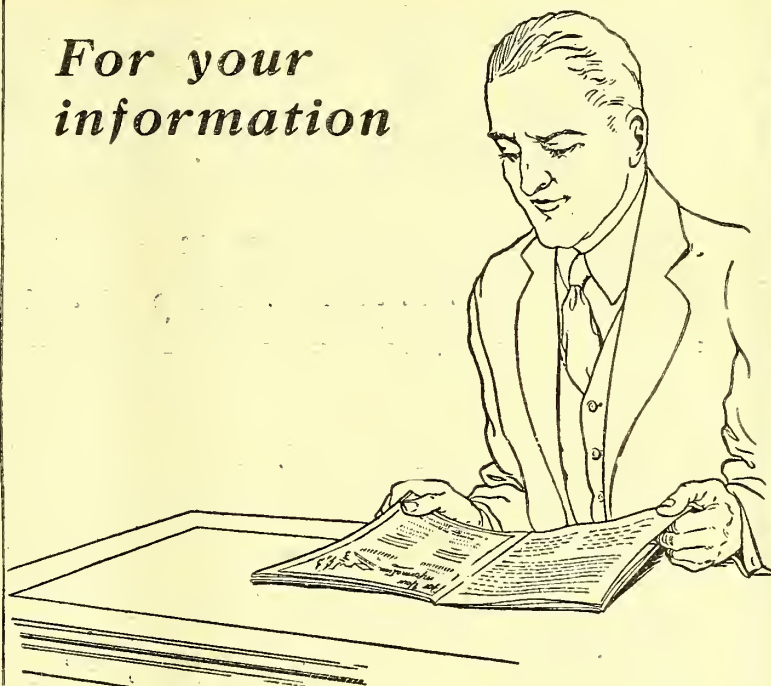


BURROUGHS WELLCOME & CO., LONDON

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**For your
information**



Ephedrine

Prescribers require the lævo-rotatory alkaloid, obtained from the genuine Ephedra (Ma Huang).

Experiment has shown that this alkaloid is twice as active physiologically as synthetic ephedrine, which is optically inactive.

Pure, natural lævo-ephedrine, made from the genuine Ephedra, freed from pseudo-ephedrine and other subsidiary alkaloids, is presented in the

**BURROUGHS WELLCOME & CO.
EPHEDRINE PREPARATIONS**

WARRICK BROTHERS, LIMITED

AMULETS.
CACHETS & APPARATUS.
CACHOUS.
CAPSULES.
CHANTICLEER PASTILLES.
CHAPIREAU'S CACHETS.
CHOCELLÆ.
CINET GOODS.
COMPRESSED TABLETS.
CRYSTADES.
EAU DE COLOGNE.
ESSENTIAL OILS.
EXTRAITS AUX FLEURS.
FIZZLETS. (*Suspended*).
FLEXETTES.
FLEXOIDS.
FRAGRETS.
JAPADUMS (CINET).
LOZENGES.
LUBRILAX.
NORETS.
NOSTRONES.
ORIFORM LOZENGES.

OTTOLETTES.
PASTILLES.
PERFUMES.
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A WEEKLY JOURNAL OF PHARMACY AND OF THE CHEMICAL AND DRUG TRADES

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists Societies in the Overseas Dominions.

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Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Wednesday, July 24

South-West London Chemists' Association and Branch. Summer outing to "Clearway," Kingsdown, near Sevenoaks, leaving the Plough, Clapham, at 2.15 p.m. Adults 6s. 6d., children 4s., inclusive of tea. Charge for those who are not travelling in charabancs 2s. 6d. Early application for tickets.

Thursday, July 25

North London Pharmaceutical Association and North Metropolitan Branch. Sports day on grounds of Maw Son & Sons, Ltd., New Barnet, commencing at 3 p.m. No charge. Replies to the secretaries by July 22 to allow for proper catering.

WANSTEAD ORPHANAGE.—The claims of the Royal Infant Orphanage, Wanstead, London, E.11, have lately been brought to our notice. Up to the present children representing nearly 100 pharmacists have been cared for in this institution, and three more are entering shortly. The Orphanage is carried on chiefly in the interests of necessitous cases from commercial and professional spheres.

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Brushes to be Dearer

The British Brush Manufacturers' Association announce that, owing to a general advance in the prices of the principal raw materials from which brushes are made, it appears inevitable that the cost to the public of the majority of brushes and brooms used for both trade and domestic purposes will also have to advance. Unsettled conditions in China, which have brought about a scarcity of bristles, with a corresponding increase in price, still continue. The prices of the majority of Russian bristles have also been raised, and in addition to this, fibres, especially bass, have a tendency to harden in price.

Contracts

A deputation from the Federation of British Industries recently met the Prison Commissioners, states the "Financial News," to discuss the principle on which firms were invited to tender on "open" contract for drugs and druggists' sundries. The orders given by the prison authorities are extremely small, but the principle involved is an important one, as in the tender forms all articles scheduled are entered at a fixed price and tenderers are asked to quote a uniform discount for the whole. The Commissioners agreed to the appointment of two representatives from each side to consider proposals for simplifying the form so that better protection might be given to contractor and purchaser.

Inquests

The Camberwell (London) coroner held an inquest, on July 12, on the body of William M. McKechnie, a blind masseur, who died from taking mercuric chloride in mistake for calomel. It was stated that at King's College Hospital an attempt was made to save his life by performing the unusual operation of removing, and after treatment replacing, the kidneys. A verdict of "Death by misadventure" was returned.

The coroner for Hampstead (London) concluded, on July 13, an inquest on the body of Sir Mortimer Singer, who had been undergoing treatment in a nursing home. Dr. G. R. Lynch stated in evidence that he had found veronal in each of the organs submitted to him, and medial in a tumbler left at the bedside. Sir Bernard Spilsbury deposed that death was due to poisoning by veronal, of which the deceased had taken at least 50gr. A verdict was given to the effect that Sir Mortimer Singer was of unsound mind at the time.—A large dose of veronal was stated by a medical witness to be the cause of death of Miss Yvonne Cresswell, clerk employed by the League of Nations, at the inquiry concerning her death, held on July 9.

On July 11, 12, 13 and 16, the Croydon coroner inquired, by order of the High Court, into the death of Mr. Edmund C. Duff, who died on April 27, 1928. The evidence of Dr. G. R. Lynch, senior analyst to the Home Office, was to the effect that arsenic was present in every tissue examined by him. The amounts found were as follows: Large intestine, 0.014gr; small intestine, 0.004; pancreas, 0.002; bladder, 0.001; fluid from the chest, 0.005; toe-nails, 0.0001; finger-nails, 0.0001. In the case of the following organs he had calculated the amount on the assumption that the tissues were of the average weight for a normal man: Lungs, 0.016gr.; brain, 0.027; muscle, 0.654; bone, 0.049. These amounts made up a total of 0.815gr., calculated as arsenious oxide. In 1oz. of skin he found 0.0005gr. of arsenious oxide, in 1oz. of hair 0.002gr., and similar weights of the shroud and sawdust 0.001gr., and the soil 0.0005gr. The witness was of opinion that Mr. Duff died from acute arsenical poisoning and that he must have taken arsenic amounting to several grains. Mr. H. C. H. Candy, B.Sc., F.I.C., gave evidence to the effect that twelve months ago he was unable to find arsenic in the organs submitted to him. Questioned by Mr. H. D. Roome, the witness said that had he known then as much as he knew now, he would have taken another sample. The inquiry was adjourned.

Liverpool

Trade is bad in Liverpool just now. Time was when the big steamers during the holiday months brought large numbers of wealthy passengers, who made a stay of a day or two and were good customers at the shops. Now, although the visitors are more numerous, they are of the cheaper tourist class, and are rushed straight off by train or motor-coach to the lakes or some other distant parts.

Nowadays chemists seem often to be expected to fulfil the functions of an information bureau. One Liverpool retailer has within a week been asked for an hotel recommendation by a lady from Cornwall, who was coming to Liverpool to see safely aboard ship a dog she had sold for £250, and by a Glasgow firm to allow two travellers who were coming to Liverpool to allow them to use his shop as a rendezvous.

The Wallasey chemists have voted in favour of a proposed new closing order which provides for the closing of chemists' shops at 7 p.m. on Monday, Tuesday and Thursday, 1 p.m. on Wednesday, and 8 p.m. on Friday and Saturday. During four months of the summer season chemists' shops in New Brighton, Wallasey Village and Moreton will be exempt from this order. The matter will come up for approval by the Town Council shortly.

Miscellaneous

POISON-LICENCE APPLICATIONS.—Boston Town Council has granted a licence for the sale of sheep dips and insecticides to Mr. Fred Stray.—F. J. Joynes, Ltd., ironmongers, Duke Street, Reading, have applied to the Town Council for a licence to sell agricultural and horticultural poisons.

IN THE COURTS.—At Lincoln Quarter Sessions, on July 6, William Frank Hodgson (16) was sentenced to six months' imprisonment in the second division for stealing goods belonging to his employer, Mr. Frank Maltby, chemist and druggist, Silver Street.—At Marlborough Street Police Court (London), on July 13, Leslie J. Stonelake (34) was sentenced to three months' imprisonment in the second division for being in unlawful possession of 12 gr. of morphine sulphate; the sentence, however, was subsequently revoked by the magistrate in consideration of a doctor offering to give the accused further treatment.—At Bradford City Police Court, recently, Seth Stevenson, farmer, was fined 20s. for selling milk which contained formalin.

Irish News

Brevities

Mr. Denis Hagan, a chemist's assistant at Tralee, was drowned while bathing at Oysterhale on July 13.

The following table compiled from the official import returns issued by the Irish Free State Ministry of Industry and Commerce showed the value of drugs, etc., imported into the Free State during 1928 as compared with 1927:—

	1927		1928	
	Cwt.	£	Cwt.	£
Boric acid	259	571	519	1,043
Acids, other	6,537	8,243	9,348	12,139
Cream of tartar ..	4,330	18,566	4,980	23,105
Ammonium compounds	1,176	2,570	2,012	3,591
Perfumery, containing spirit lb.	41,940	14,679	46,349	16,266
Other perfumery .. lb.	492,601	74,870	716,644	89,740
Medicines and dutiable preparations	—	108,981	—	104,116
Medicines, non-dutiable	—	210,597	—	235,182
Druggists' wares	—	37,481	—	38,271
Linseed oil (unrefined)	9,777	18,151	9,466	17,206
Linseed oil (refined) ..	13,475	25,749	14,046	26,103
Castor oil	3,425	15,966	3,062	14,468
Disinfectants, insecticides, &c.	14,360	61,016	15,760	58,332
Total	—	597,440	—	639,562

Scottish News

Brevities

T. F. Bristow, Ltd., London, have appointed Mr. J. Bunting, jun, as their representative for Scotland.

In Glasgow Sheriff Court, recently, Catherine B. Riach, Catherine Dempster and Nancy McGroarty, unqualified assistants in doctor's shops, were each fined 30s., including expenses, for having sold a scheduled poison.

Amongst the new St. Andrew's University examiners are Professor Wright Smith, Department of Botany, Edinburgh University, for theses presented for the Ph.D., and Professor Findlay, Aberdeen, examiner in chemistry.

Mr. R. A. Robertson, M.A., B.Sc., lecturer in botany in the United College, St. Andrew's, 1891, and reader in botany since 1915, has been appointed first professor in the new chair of botany, St. Andrew's University, and will take up duty in October.

Benger Laboratories Opened

On July 10 the New Benger Laboratories for pharmacology and pharmaceutical chemistry were opened at Manchester University by Mr. Francis H. Carr, C.B.E., a past-president of the Society of Chemical Industry, who received the degree of Doctor of Science from the University on the following day. The Vice-Chancellor of the University (Dr. W. H. Moberly) presided at the function, and referred to the generosity of Benger's Food, Ltd., whose gift of £2,000 made the opening and equipment of the laboratories possible. The premises comprise a section devoted to pharmacology, a biochemical laboratory, a pharmaceutical laboratory with balance and furnace rooms, a demonstration-theatre, private laboratories for the head of the department and a lecturer, a library and a secretary's room. The gift has been presented in memory of the late Mr. F. Baden Benger, founder of the business; and the gift is recorded on a memorial tablet placed near the demonstration-theatre.

In declaring the laboratories open, Mr. Carr referred to the work which had been carried out in the University on the chemistry of alkaloids. The researches of



Photo]

BENGER PHARMACEUTICAL CHEMISTRY LABORATORY

[Cleworth

Professor W. H. Perkin and his colleagues had provided the world's greatest contributions to this subject. Mr. Carr went on to point out the exceptional opportunities for co-ordinated study available in Manchester. There was in the University a Department of Chemistry with traditions second to none. There was also a Department of Physiology in which the chair had been held successively by men like Professor Gamgee, Professor Stirling and Professor A. V. Hill; the present occupant was Professor Raper, who filled the post with great distinction. Important work has also been achieved in the Department of Materia Medica and Therapeutics by Professor Leech, Professor Wild and Mr. McDonald. Dr. Alfred Réé, in moving a vote of thanks to Mr. Carr, referred to his work in association with the late Colonel E. F. Harrison and with Professor Raper in the production of gas masks. Mr. William Kirkby, M.Sc., Ph.C., in seconding, said it was very appropriate that these fine laboratories should be opened by Mr. Carr, who was first and foremost a chemist.

Pharmaceutical Society of Ireland

Council Meeting

THE monthly meeting of the Council of the Pharmaceutical Society of Ireland was held at 67 Lower Mount Street, Dublin, on July 9, Mr. F. J. Fitzpatrick (president) in the chair. The following members of the Council were also present: Mr. Denis J. Nugent (vice-president), Dr. Michael Ryan (treasurer), Dr. J. A. Walsh, Dr. J. A. Mitchell, Sir Thomas Robinson, Messrs. John Smith, P. D. Larkin, Patrick Brooke Kelly, Thomas J. Doyle, J. J. R. Kerr, P. A. Brady, and W. Gannon. Mr. D. Warwick, Mr. Patrick Kieran and Mr. M. J. Kieran sent apologies for non-attendance.

SOCIETY'S GRADUATES IN U.S.A.

The registrar submitted a letter from Mr. Charles A. S. Gillespie, P.S.I., 650 S. Oakland Avenue, Villa Park, Illinois, U.S.A., stating that he would be very pleased to correspond with the secretaries of the States of the United States of America as to the granting of licences to the graduates of the Society. Appreciation was expressed of the kind offer of Mr. Gillespie, which the registrar had written accepting.

REGISTRATION OF L.A.H.

The application of Dr. Annie T. Griffin, Killimor, Balinasloe, co. Galway, who submitted a diploma as Licentiate of the Apothecaries' Hall, to be registered as a Pharmaceutical Chemist, was granted.

CHANGES OF ADDRESS

The following notified changes of address:—

Miss M. E. Hanna, Ph.C., to Park Hospital, Hither Green, London, S.E.13; Miss K. M. Hoey, Ph.C., to The Medical Hall, Ballybay; Miss Mary O'Regan, Ph.C., to Foxrock, co. Dublin; Mr. A. E. Ferris, Ph.C., to 215 Bromley Road, Catford, London, S.E.6; Mr. P. Godfrey, Ph.C., to The Medical Hall, Castle Street, Cahir; Mr. W. C. Hinchy, Ph.C., to Ballycastle, co. Mayo; Mr. Wm. Kelly, Ph.C., to The Medical Hall, Kildysart, co. Clare; Mr. John King Lyons, Ph.C., to 207 Victoria Park Road, South Hackney, London, E.9; Mr. D. C. McDougall, Ph.C., to c/o Dr. J. Gardiner, 3 Usher's Island, Dublin, W.6; and Mr. E. Ronaghan, Ph.C., to The Pharmacy, 24 Parliament Street, Dublin.

PRELIMINARY REGISTRATION

Mr. Michael Francis Flynn, Rehill, Ballylooby, Cahir, co. Clare, who submitted a certificate from Trinity College, was admitted to Preliminary registration.

BRITISH PHARMACEUTICAL CONFERENCE

On the motion of the PRESIDENT, seconded by the VICE-PRESIDENT, a vote of thanks was passed to the following for their share in the work of contributing to the success of the visit of the British Pharmaceutical Conference: The Dublin City Commissioners; Dr. Myles Keogh, T.D.; the Killarney Urban District Council; Boileau & Boyd, Ltd.; Arthur Guinness, Son & Co., Ltd.; Mr. and Mrs. Victor E. Hanna; the editors of the "Irish Independent," "Evening Herald," "Irish Times," and "Evening Mail"; the Irish Tourist Association; Miss O'Sullivan, manageress of the Mansion House; Mr. Joseph O'Reilly, Ph.C.; Mrs. Hewson; Mr. W. Reidy.

REPORTS FROM COMMITTEES

Reports from the Law Committee, the House Committee, the Schools Committee, and the Certificates and Declarations Committee were received and adopted.

SCHOOL TERM PRIZES

It appeared from the report of the Schools Committee that the following prizes were awarded as a result of the school term examinations held in June:—

Chemistry.—Day Class: (1) Mr. Smith, 85 per cent.; (2) Mr. Fortune, 82 per cent. Night Class: (1) M. Lugrue, 80 per cent.; (2) D. F. O'Sullivan, 75 per cent.

Botany.—(1) J. O'Brien, 81 per cent.; (2) Cormac Flanagan, 75 per cent.

Pharmacy.—(1) Francis J. Roche, 27 marks; (2) Miss E. M. Young, 23 marks.

Materia Medica.—(1) Mr. Fortune, 90 per cent.; (2) John P. Cashman, 88 per cent.

REPORTS OF DEATHS

The registrar reported the deaths of Dr. J. J. Kinsella, Ph.C., late of Edenderry, on June 18, and of Mr. Joseph Moffett, R.D., late of Belfast, on the same date.

THANKS FOR GIFT OF BOOKS

On the motion of the VICE-PRESIDENT, seconded by SIR THOMAS ROBINSON, a vote of thanks to the trustees of the Bell and Hills Fund was passed for the gift of books presented on the occasion of the Conference.

The PRESIDENT said the books, which had been well chosen, would be of benefit to their students.

ELECTIONS AND NOMINATIONS

On the motion of the PRESIDENT, seconded by the VICE-PRESIDENT, the following were elected to membership:—

Mr. C. V. Bolton, Ph.C., Standard House, Patrick's Bridge, Cork; Mr. R. N. Boyd, Ph.C., 33 Parkgate Street, Dublin; Miss A. Brennan, Ph.C., Castlecomer, co. Kilkenny; Mr. P. P. Buckley, Ph.C., 160 Church Road, Dublin; Mr. L. P. Cockerill, Ph.C., Medical Hall, Clonakilty, co. Cork; Mr. M. J. Cogan, Ph.C., 13 St. Mary's Street, Dungarvan; Mr. S. J. Collins, Ph.C., O'Curry Street, Kilkee, co. Clare; Mr. F. M. Cotter, Ph.C., 32 St. Anne's Road, Drumcondra, Dublin; Miss C. C. Cregan, Ph.C., 63 North Circular Road, Dublin; Miss Kathleen Fogarty, Ph.C., 61 Palmerston Road, Dublin; Mr. G. Gilmore, Ph.C., 10 Patrick Street, Kilkenny; Mr. M. J. Hardy, Ph.C., Foxford, co. Mayo; Miss I. C. Hayes, Ph.C., Dundrum Pharmacy, Dundrum, co. Dublin; Mr. Thos. Hayes, Ph.C., Killeullen Pharmacy, Killeullen, co. Kildare; Mr. A. Herriott, Ph.C., 9 Castle Street, Nenagh; Mr. Owen Lynch, Ph.C., Rathangan, co. Kildare; Mr. C. Mannin, Ph.C., 9 Townsend Street, Dublin; Mr. P. J. Moloney, Ph.C., Medical Hall, Main Street, Tipperary; Mr. W. McCarthy, Ph.C., 5 St. John's Terrace, Clontarf, Dublin; Mr. D. J. Nolan, Ph.C., Castleisland, co. Kerry; Mr. E. R. Owen, Ph.C., Medical Hall, Dunmanway, co. Cork; Mr. David Rea, Ph.C., Rosemary Street, Roscrea; Mr. F. P. Reynolds, Ph.C., Medical Hall, Carndonagh, co. Donegal; Mr. J. R. Shanahan, Ph.C., Medical Hall, Castleisland, co. Kerry; Mr. J. Vaughan, Ph.C., Medical Hall, Nenagh; Mr. H. Weir, Ph.C., Medical Hall, Mullingar; Mrs. C. M. Wilson, Ph.C., 18 The Beach, Cobh, co. Cork; Mr. L. J. Walsh, Ph.C., The Medical Hall, Navan; Miss Mary Walsh, Ph.C., Medical Hall, Maghera; Miss M. O'Regan, Ph.C., Foxrock, co. Dublin; Mr. T. Arnold, R.D., Virginia, co. Cavan; Mr. G. V. Boyd, R.D., "Glensavage," Blackrock, co. Dublin; Mr. E. Buckley, R.D., Main Street, Ennistymon, co. Clare; Miss T. M. Cleary, R.D., Hospital, co. Limerick; Mr. M. P. Cronin, R.D., 6 Woodville Road, Dublin; Mr. R. C. Curtis, R.D., 135 Barrack Street, Waterford; Mr. P. J. Horan, R.D., Askeaton, co. Limerick; Mr. J. L. McKernan, R.D., Vicar Street, Tuam; Mr. F. MacManus, R.D., Market Street, Trim; and Miss G. M. M. O'Dea, Ph.C., 13 Wigan Road, Dublin.

On the motion of the PRESIDENT, seconded by the VICE-PRESIDENT, the following were nominated for membership:—

Mr. Patrick Cahill, Ph.C., Whitehall Pharmacy, Drumcondra, Dublin; Mrs. Elizabeth M. Roe, Ph.C., Seaton Place, Dundalk; Dr. Kathleen Waldron, Ph.C., Castle Street, Cahir; Mr. E. J. O'Donnell, Ph.C., 56 Fade Street, Dublin; Dr. Joseph D'Alton, Ph.C., Shannon Lodge, Banagher; Mr. Edmond Collins, Ph.C., Medical Hall, Killorglin, co. Kerry; Mr. Wm. Dowling, Ph.C., 3 Lr. Castle Street, Trillick; Mr. John E. Devitt, Ph.C., 89 The Quay, Waterford; Miss Kathleen Hoey, Ph.C., The Pharmacy, Ballybay; Dr. R. Treacy, Ph.C., 5 James Street, Tipperary; Mr. Charles J. Dunlop, Ph.C., 43 Harrington Street, Dublin; Mr. P. Godfrey, Ph.C., The Medical Hall, Castle Street, Cahir; Mr. J. A. L. Sewell, Ph.C., Medical Hall, Killarney; Mr. Roland Lynch, R.D., Ballinagh, co. Cavan; Mr. G. Darling, R.D., Maryville, Raheny, co. Dublin; Miss Catherine J. Clune, R.D., Bourke's Medical Hall, Tulla; Mr. Charles O'Neill, R.D., 36 High Street, Kilkenny; Mr. John C. Heffernan, R.D., Ennis Drug Store, O'Connell Street, Ennis; Mr. Roland Taylor, R.D., Tinahely, co. Wicklow; Miss Marion Gilligan, R.D., 79 Mungret Street, Limerick; Mr. T. J. Keatinge, R.D., 2 Millmount Avenue, Drumcondra, Dublin; Miss M. Gunning, R.D., Ballymacurley House, Roseomon; and Mr. John P. O'Connor, R.D., 2 Dolphin Barn Street, Dublin.

Examination Results

PHARMACEUTICAL LICENCE EXAMINATION

Passed (arranged according to merit).—Matthew J. Hanna, Patrick J. Higgins, Carmelita Canton Caitlin O'Kelly. Thirty-one candidates were rejected. James C. Bannon obtained sufficient marks to entitle him to register as a Pharmaceutical Assistant.

PHARMACEUTICAL ASSISTANT EXAMINATION

Passed (arranged according to merit).—Michael Fortune, Michael Joseph Rourke, John Magnier, Christopher Duncan, Charles McLaughlin, Francis C. Kavanagh, Patrick J. O'Grady, Joseph John Bridgeman. Five candidates were rejected.

PRELIMINARY EXAMINATION

Passed (arranged according to merit).—Nora O'Connor, Maurice Simon Cliffe, Edmond Fleming, Johanna Lawson, Patricia Virginia Nugent, Richard Daly, Elizabeth Cogan, James Benedict J. Boylan (Jeremiah Forde, Patrick Ward), (Maude O. M. McFarland, John Joseph Breen). Fourteen candidates were rejected.

Westminster Wisdom

Notes on Parliamentary Matters

INDIAN MORPHINE

The Secretary of State for India has issued a statement showing the amount of morphine and its salts manufactured at and issued from the Ghazipur factory from 1923 to 1928, which shows that 165 lb. was manufactured from October 1927 to September 1928, of which 119 lb. 11 oz. was issued in India. There have been no exports to the United Kingdom since 1924, when 430 lb. was shipped.

RETAIL SELLING PRICES

Mr. Maclean asked the President of the Board of Trade, on July 16, whether the Government purpose taking any action against firms or combinations of firms which refuse to supply traders with goods unless under terms which prohibit selling at a lower price or in giving a discount to the purchaser.

Mr. W. Graham: It will be my duty in the course of the coming weeks to examine many important questions in which the Board of Trade are concerned, including this one to which my hon. Friend refers, and I would ask him to await the result of that investigation.

THEFTS OF MEDICAL MEN'S "DANGEROUS" DRUGS

Mr. George Oliver asked the Home Secretary, on July 11, whether his attention has been drawn to the number of thefts of drugs from motor-cars belonging to doctors; and whether, in view of the increasing number of this class of theft and the consequent dangers arising therefrom, he proposes to take any steps to prevent medical practitioners leaving dangerous drugs unattended or in other than some reasonably safe place? The Home Secretary (Mr. Clynes) replied that there had been a certain number of such thefts, but the police are satisfied that these thefts are ordinary cases of petty larceny and have no connection with any form of traffic in "dangerous" drugs. It is desirable that medical practitioners and others who have these drugs in their possession should be particularly careful to avoid any risk of their being lost or stolen, and he hoped the publicity which has been given to the matter would lead to greater care being taken. In reply to supplementary questions, the Home Secretary added that if the terms of his answer were not effective, further steps might be taken.

JUDICIAL IGNORANCE.—A report has reached us to the effect that when Hetty Foster pleaded "guilty" at Hull Police Court recently to a charge of theft the probation officer said the doctor described the defendant as a "morphia-maniac." The Magistrate: Can you go into a chemist's and buy this morphine? The officer said it was quite easy to get it.

Associations' Meetings

Belfast.—A meeting of the committee of the Chemists' and Druggists' Society of Ireland was held at 11 Waring Street, Belfast, on July 4, Mr. Fred Storey (president) in the chair. Apologies for absence were read from Messrs. S. Gibson, D. A. Taylor and J. A. Donaghy. Mr. Storey paid a tribute to the late Mr. Joseph Moffett, their secretary. He had been the mainspring of their Society. His genial manner and the way in which he had looked after their welfare had endeared him to all their hearts. He moved a vote of sympathy to Mrs. Moffett and her children. Mr. W. E. Wilson, in seconding, referred to the admirable qualities possessed by Mr. Moffett, a man of sterling character. His place would be hard to fill. Mr. J. Macauley endorsed all that had been said by the previous speakers. Mr. Moffett had never spared himself in working for the interests of all their members. He had been an adviser and friend to them all. Mr. C. B. Abernethy recalled many of Mr. Moffett's acts of kindness. Mr. W. Martin and Mr. McBirney also supported the motion. A vote of sympathy with Mr. T. Gordon on the death of his mother was also passed. Mr. James Macauley was unanimously appointed secretary *pro tem.* The subcommittees were all reappointed. It was decided to have no excursion this year as a token of respect to the late secretary.

Edinburgh.—The annual practical demonstration of the Edinburgh Chemists', Assistants' and Apprentices' Association took place at 36 York Place, Edinburgh, on June 21, Miss I. A. Purdie, Ph.C. (vice-president) in the chair. A large supply of fresh plants had been collected by Misses Latto, Purdie and Smith, and Messrs. Blackie, Gunn and Knott. The collection, comprising 47 natural orders, 125 genera and 169 species had been systematically arranged and were described by Mr. J. Rutherford Hill, Ph.C. On the motion of the chairman a vote of thanks was awarded to Mr. Rutherford Hill who, in replying, expressed his indebtedness to those who had collected the specimens. A vote of thanks was awarded to Miss Purdie, and the members devoted some time to further study of plants exhibited.—The fifth botanical excursion of the summer session took place on July 5, when the members assembled at Duncan, Flockhart & Co.'s drug farm at Inverleith. The president (Mr. J. J. Blackie, Ph.C.) conducted the party over the garden. It was noted that the crop of *Hyoscyamus niger* was exceptionally good. All the plants of interest to students were seen and described.

Scottish Pharmaceutical Federation.—A meeting of the Executive Council of the Scottish Pharmaceutical Federation was held in Edinburgh on July 5, Mr. A. A. Dick (president) in the chair. The following office-bearers for the current financial year were appointed:—*President*, Mr. A. A. Dick; *Vice-President*, Mr. P. M. Duff; *Secretary*, Mr. H. Graham Macmillan, C.A., Glasgow; *General Purposes Committee*, Messrs. Alex. A. Dick, P. M. Duff, W. G. McNab, Peter Nisbet, A. Murray and John Weir; *Parliamentary Committee*, Messrs. A. A. Dick, P. M. Duff, W. G. McNab, A. Murray, James Duff and Martin Meldrum. Messrs. A. A. Dick and W. G. McNab were reappointed to represent the Federation on the Pharmaceutical Parliamentary Fund Committee. Six applications for membership were passed. Among other matters the following were under consideration: Further correspondence with J. C. Eno, Ltd., was read, with regard to the reduction of gross profit on chemists' sales of Eno's Fruit Salt, including a letter sent by the secretary to Messrs. Eno pointing out that there was a grave danger of the goodwill of the chemists in Scotland, which they had hitherto enjoyed, being lost unless better terms were obtained. A complaint by a member regarding a neighbouring chemist granting trading stamps with P.A.T.A. articles. It was reported that the matter had been taken up with the P.A.T.A. with satisfactory result. Coty's goods and reduction in selling price to the public. Cases in connection with N.H.I. test prescriptions, in one of which it was found that an analysis by the Federation's analysts was in accordance with the prescription, notwithstanding the fact that the Insurance Committee's analysts had certified a considerable excess in salicylic acid and a deficiency in sulphur.

“Pharmaceutical Formulas”

A Review by Herbert Skinner, President of the Pharmaceutical Society of Great Britain, 1927-29

It is a far cry back to 1898, when my first acquaintance with “Pharmaceutical Formulas” began; that I should remember it is natural, since it served as an introduction to Peter MacEwan, which ripened into a friendship ended only by his death, and I suppose it can safely be said that my link with “P. F.” has never since been broken. Work on practical pharmacy in those days came easier than it does now, when the toll of years with political and educational exactions eats deeply into one's reserve of energy. At the same time, I would not like to allow the opportunity to pass of paying a tribute, on the appearance of a new volume of the book, to the inspiration of MacEwan, of Woolley, and, I may add, the stimulation, the imagination and persistence of the Editor who has now completed the change for this new edition, Mr. G. P. Forrester. Seeing it for the first time, I find there is a surprising vein of conservatism which has crept into my composition. Far be it from me to appear to put Volume One into the second place, as it undoubtedly represents the warp and weft of all true pharmacy; it gives scope in bringing together medicaments in a form likely to yield better results in treatment based on the experience of an army of observers. But what grips me is always the seemingly endless struggle to produce perfect tooth-pastes, face creams, dusting powders, and in these days pigments and varnishes surpassing even those of present-day excellence, and the trained pharmacist is the man most capable of achieving the object. So much for my first impression of the division into two volumes.

DISCRIMINATING INDUSTRY

The next impression of this new volume is the extraordinary collection of formulas from every possible source throughout the civilised world. It is a monument of discriminating industry, for surely there never was, and probably never will be, anything quite comparable with this gathering of typical formulas representing the struggle for perfection in the production of galenic, pharmaceutical and medical preparations. The more the biological factor is studied, the more I am convinced that in practical pharmacy the first thing to cultivate is simplicity. No skilled and clear-thinking physician nowadays devises a mixture to exhibit digitalis—experience has taught him that it is folly to muddle it up with other medicaments; and though the same is not quite true of most other drugs, it remains a cardinal principle in formula construction: simplicity first, as the body can utilise simples with certainty, but complicated preparations lead to further complication, and the result is that, if betterment results, it passes the wit of any physician to say wherein lay success. The old empiricism, however, still remains, and patients, physicians and pharmacists continue in never-ending cycles to be the victims of exploitation by the artists of ingenuity in devising new formulas for pharmaceutical preparations. To thread my way through the 1,146 pages in detailed analysis would consume too much space: after carefully going through several thousand formulas, I find myself encumbered with notes so voluminous that I am compelled to lay most of them aside owing to the danger of being obsessed by details.

The comments attached to each group of preparations are extremely interesting, even if I cannot quite accept the definitions as complete in themselves. Thus it is said of medicated ethers that “the refrigerant effect produced by the evaporation of ether is one of the objects in employing it”; and below we have ether cantharidini, the effect of which would be a transient refrigeration, and finally the action of a decided irritant. The collection of formulas from various hospitals is of great interest to me, and illustrates what I have previously suggested, that we have a long way to go to produce the satisfactory simple preparation which can secure immediate acceptance as the best. In local anaesthetics and injections the preparations now available are even more extensive than the long list given; thus, I find no mention of the latest form of ethyl chloride with the perfume oils of eau de

Cologne, nor do we get sodium morrhuate, which is rapidly being established as a favourite injection for varicose veins. It is almost necessary to apologise for mentioning omissions where the material is abundant: hospital men are brought up against the necessity for devising formulas almost daily, and no book yet published can furnish them with as many models on which to build new medicaments. Perhaps medical men will appreciate even more the wealth of material to serve as guidance in meeting particular needs. The collection of formulas under the general headings for infusions, decoctions, glycerinata, tinctures, liniments, pills, mixtures, etc., is so comprehensive that no teacher in pharmacy, or examiner for that matter, need ever again be short of material for construction of tests. Under “Injections,” I may remark that diamorphine hydrochloride is very frequently given instead of morphine for the same purposes, as it acts much quicker in smaller doses.

PRACTICAL PHARMACY NOTES

A word ought to be said about the practical pharmacy notes, which appear to me to be one of the most valuable features—specially suitable to those learning the business, so that they may understand from the beginning the *raison d'être* of method in preparation. In the first edition it was assumed that we all knew pharmaceutical processes, but time proved that “P. F.” was not confined to one class only. Quite apart from the collection of formulas under the particular headings, these notes illustrate so completely the subject-matter that “Pharmaceutical Formulas” should become a stand-by in practical pharmacy for the student, especially in the shop or dispensary where it is still a point of honour to train apprentices. The analysis of formulas for liquor antisepticus arising from the basis of a proprietary article is exceptionally interesting. It occurs to me that if experts in production differ so materially, we cannot blame medical men for prescribing a proprietary which is consistent. The same remarks apply to glycerin thymol co. One frequently gets the remark about proprietaries used in dispensing, “I prefer the original if you don't mind; you can bank on it.” A feature of this volume is the analysis of the various recipes suggested for popular lines, and judging from these variations it appears to me in many instances we shall have to begin again constructing formulas for preparations likely to meet with universal acceptance. I sometimes wonder why it is necessary to imitate any popular proprietary, and the B.P.C. sins grievously in this, when any practical pharmacist could produce formulas, simpler in nature, with equal therapeutic effect, and probably as pleasing to the aesthetic sense.

It is curious that even in the colouring of lotio acidi carbolic in hospitals there is no uniformity. I find magenta, fuchsin, and naphthol yellow used in different hospitals, while the Naval Hospital introduces dilute acetic acid, camphor and rectified spirit into its lotion. The same terminology is used to express totally different formulas; in fact, the thing that strikes me most in this wonderful collection of pharmaceutical recipes is the differences arising from like minds trained in similar schools to achieve similar objects. It is most striking in the case of hospitals—where one would expect to find at least some uniformity. The selection of formulas for medicated soaps presents me with several conundrums, which are not resolved in the notes, one of which relates to the precise value of coconut oil soap as a detergent. Usually it is regarded as the source of abundant lather, but for medicinal purposes it cannot vie with other sources of fatty acids; yet the production of formulas using coconut oil as a base continues. There are no less than eight recipes for syrup of figs, which serves to confirm what has previously been said; authoritative harmonising of formulas scarcely seems to exist, and what appears to be a guiding rule is to try to produce another formula with slight variation as an official one. The information on formation of tablets is not very extensive, but adequate reference is given. It is surprising how much that is useless has been written on this subject, and even the official books perpetuate some very stupid recipes. It is only when we get, in such a compilation as “P.F.,” all the attempts of succeeding generations of pharmacists to produce satisfactory tablets that we realise what immense

improvements in this form of medicament have been made. One has only to look at the B.P.C. for tablets, and then set out to produce them in an entirely different manner, when success is likely to be the reward.

THE APPENDIX

The last 300 pages are devoted to unofficial formulas, which should save quite a lot of ingenuity in the provision of known, admitted, and approved remedies. They are typical and are selected from the thousands which which must have appeared in the *C. & D. Diaries* since the concession was obtained. This point brings me to the Appendix, which, in my opinion, as one having had something to do with the exposition and administration of the law, is in itself worth the price asked for the whole book. To bring together in the formulary book the Medicine Stamp Acts, Dangerous Drugs Acts and Regulations, poisons law, Labelling of Poisons Order, Merchandise Marks Acts, methylated spirit regulations, preservatives and colouring matters in food, and, in fact, all the materials affecting a law-ridden business is well worth while, and the information covers not only Great Britain and Northern Ireland, but the Irish Free State also. In addition there is the convenient list of poisons and their antidotes. The book thus constitutes an encyclopedia which surely stands alone in pharmacy throughout the Empire and conceivably the world. One word on the index. I have spent quite a lot of time trying to find some failure to indicate where the material might be found. Indexing is a highly technical job, and requires a skill and application to detail rarely possessed. Every test I applied failed to find any error, and it must be a source of gratification to the Editor that such a voluminous work has been successfully brought to fruition. Finally, I have only one want to moan about; I am anxious to get Volume Two, as when this is available Volumes One and Two will surely be a library in themselves for British pharmacy. So far as Volume One is concerned, it would appear to be a certainty that every chemist and druggist practising his calling will never have a complete set of reference books unless "Pharmaceutical Formulas" is included; and even if he is reduced to two or three books, for the sake of efficiency in his establishment "P. F." will be one. I would like to conclude by complimenting the Editor on the satisfactory ending of his Herculean labour. Only those who have toiled in the same field fully appreciate what it has meant.

Proprietary Articles Trade Association

THE quarterly meeting of the Council of the Proprietary Articles Trade Association was held at the Hotel Russell, London, W.C.1, on July 11, the president (Mr. A. Ridout) in the chair.

The PRESIDENT, in extending a welcome to the new member of the retail section, Mr. D. M. Watson, who had been co-opted in the place of Dr. Barnes, said that Mr. Watson's record as a member of the Council of the Pharmaceutical Society of Ireland and of the Dublin and Provincial Retail Drug Association, and the fact that his nomination was endorsed by the Dublin and Belfast Retail Associations, was sufficient assurance that he would worthily represent Irish interests on the Council. Mr. Watson briefly acknowledged the president's remarks.

The quarterly report of the Executive Committee stated that the Executive had been giving close attention to the position arising from the attacks made on the P.A.T.A. system by the co-operative movement during the recent election campaign.

The position of Eno's Fruit Salt was further discussed, and the secretary was instructed to inform Messrs. Eno that the terms as at present offered were still unacceptable, and to ask the firm to receive a further deputation on the subject.

The present position regarding discounts to nurses, and the fact that an interview on the subject with the directorate of Messrs. Boots had been arranged, was reported.

Compounding and Dispensing

By John Humphrey

IN the account of conditions in British Guiana, contributed to the *C. & D.* (July 13, p. 67) by Mr. Walter A. Braithwaite, a point of extraordinary interest is raised in respect of the difference in meaning between the terms "compounding" and "dispensing." It has long been my contention that we use the word "dispensing" in this country to imply more than it ought, but it was news to me to learn that British Guiana had taken the lead in distinguishing between the terms officially. Apparently, only qualified chemists are there permitted in set words to compound and dispense medicines, i.e., to mix the medicines and then hand them out to patients on the order by prescription of medical practitioners. The latter are specifically allowed to dispense, i.e., hand out, ready-compounded medicines direct, without the services of a chemist as intermediary; but the medicines so dispensed are supposed to be mixed or compounded in advance by a chemist. So long as the compounded medicines could only be obtained from chemists, our *confrères* in British Guiana must have been in clover; but there has apparently been a possibility of supplies being obtainable from wholesalers, in this country or elsewhere, who make a business of supplying medical practitioners with all their requirements in the shape of medicine. Reading between the lines of the *C. & D.* report, I should imagine this is what has taken place, so that the chemists of British Guiana are now concerned to get their Ordinance dealing with this matter made more strict.

Since it is of the highest importance to British pharmacy that there should be a clear distinction between the terms "compounding" and "dispensing," I trust every possible assistance will be given to the chemists of British Guiana in their endeavour to maintain and strengthen the Ordinance which nominally restricts the compounding of medicines to them. Whatever may have been the usage in Great Britain, where "dispensing" has been understood to include "compounding," or in Ireland, where "compounding" has been used in the sense of including "dispensing," we ought now to agree in applying the two terms in their strictly legitimate senses only. Accuracy in terminology is essential if legal restriction of any kind is to be effective, and we have undoubtedly been guilty of inaccuracy in our application of the terms in question. We ought to make up our minds, once for all, that "compounding" means the mixing of medicines, whilst "dispensing" means the handing over to patients of ready-compounded medicines, properly labelled with directions for use. It should be the business of the pharmacist practising as a chemist and druggist, or in a hospital dispensary, to compound all medicines as well as to dispense them, and there should be complete recognition of the fact that he, and he alone, is properly qualified to perform both functions.

By William Kirkby

It appears to me that the British Guiana Ordinance mentioned in Mr. Braithwaite's communication draws a distinction between "compounding" and "dispensing." This is a matter of the greatest importance in the circumstances which have arisen, especially as it seems the medical practitioners are proceeding on the assumption that the two words are synonymous. Unfortunately in this country pharmacists have been content to treat them as such, and they may think that the wording of Section 15 of the 1868 Act justifies such an assumption. Inasmuch as the British Guiana authorities have assigned compounding and dispensing to the chemists and dispensing only to the medical men, I sincerely trust the chemists will vigorously prosecute their right to the compounding. The dispensing, I fancy, must resolve itself into the act of handing over the mixed, compounded medicaments to the patients. Whether this is strictly logical, having regard to what practices have hitherto prevailed in that territory, I cannot say; but it is common sense as far as the safety of the public is concerned.

Sporting Events

THE winner of the captain's prize at the meeting of the Edinburgh Chemists' Golf Club, on June 12, was W. J. Rosie with a score of 74. Messrs. W. S. Spence, W. G. McNab, and W. A. M. Hourston tied for second place. [Corrected note.]

THE summer competition of the Edinburgh Pharmacy Golf Club was decided over the course of the Craigmillar Park Club on June 19, with the following result:—First, tie between Messrs. J. S. B. Heddle and W. H. Chambers; third, Mr. W. A. M. Hourston.

THE B.D.H. Sports Association Cricket Club.—Matches played on Saturday, July 6, were:—B.D.H. first eleven v. Highbury Cricket Club at Winchmore Hill; B.D.H. C.C., 56 runs; Highbury C.C., 43 runs; Fuller for the B.D.H. took five wickets for 11. B.D.H. second eleven v. Wood Green and Southgate Labour Institute and Cricket Club at Highgate: B.D.H. C.C., 92 runs; Wood Green C.C., 96 runs. Fifty-seven members of the Rambling Club took part in a pleasant walk in the Chess Valley, breaking into what was new ground for many of them. After tea at Chenies the walk was continued to King's Langley, where the ramble ended.

THE annual sports of Evans, Gadd & Co., Ltd., Fore Street, Exeter, were held at the County Grounds, Exeter, on June 15, before a large gathering. All the events were keenly contested, the quarter-mile handicap for the Silver Challenge Cup, presented by Mr. W. T. Symes, director, being won by Mr. P. Cox. The prizes were subsequently distributed by Mrs. Southerden at a musical evening, also arranged by the Sports Committee (Mr. A. S. Tucker, Mr. H. T. Trevelyan, Mr. P. Shipcott and Miss B. Rew). The annual outing to Westward Ho and Clovelly took place in splendid weather, on June 29, the outward journey being via Torrington and Bideford, and the return through Barnstaple. An excellent lunch was served at Westward Ho at which Mr. W. A. Cornish proposed the prosperity of the company and Mr. W. J. Wippell, Mr. F. Southerden and Mr. W. T. Symes. Directors responded. A very enjoyable day ended at 11 p.m. after fifteen hours spent in the midst of some of the most perfect of Devon's delightful scenery.

A GOLF match between Leeds Chemists and the York Chemists was played on the Netherby Golf Course, which runs along the banks of the River Wharf, on July 3, York winning by seven games to four. Friendly four-somes were enjoyed after tea by as many as were able to stay; these ended very evenly.

Leeds Chemists		York Chemists	
E. Crawford	... 0	G. A. Coverdale	... 1
T. Shooter	... ½	J. Q. Parker	... ½
— Bentley (capt.)	... 1	O. Colbert	... 0
J. Judge	... 0	H. B. Marston	... 1
N. H. Burns	... 0	J. H. Lupton	... 1
G. Houlton	... 0	W. Dewhurst	... 1
W. P. Bowman	... ½	H. Humphries	... ½
J. Higgins	... 1	T. C. Atkinson (capt.)	... 0
W. F. Kemp	... 0	J. Anderson	... 1
P. J. Byard	... 0	A. Jones	... 1
E. C. Foster	... 1	N. Coverdale	... 0
	4		7

The wholesale side of the trade was represented by Mr. W. P. Bowman (Goodall, Backhouse & Co., Leeds), and Mr. H. Humphries (Bleasdale, Ltd., York). Mr. Bowman was particularly welcomed as the donor of the "Bowman" challenge cup now in the possession of the club. Arrangements are being made for a return match at Fulford, York.

THE eighth annual tournament of the London Pharmaceutical Associations was held on July 11, at the ground of S. Maw, Son & Sons, Ltd., New Barnet, for the Maw challenge shield, the competitors being Northern, South-Western, Western, Walthamstow and West Ham. All the sports were keenly contested, and, for the second year in succession, another tie resulted. The sports and results were:—*Tennis*: Northern 4 points, Western 3, West Ham 2, Walthamstow 2. *Bowls*: Northern 4 points, South-Western 3, Western 2, West Ham 2. *Quoits*: Walthamstow 4, Northern 3, South-Western 2,

West Ham 2. *Golf*: Walthamstow 4 points, aggregate 311; West Ham 3, aggregate 330; South-Western 2, aggregate 336; Western 1, aggregate 352; and Northern 0, aggregate 353. *Putting (Ladies)*: North 178, aggregate 4 points; Walthamstow 186, 3 points; South-Western 185, 2 points; West Ham, 204, 1 point; Western 205, none. *Croquet (Ladies)*: Walthamstow, 4 points, South-Western 3 points, Northern 2, West Ham 2. The final result was:—Northern 17 points, Walthamstow 17, South-Western 12, West Ham 12, Western 6. At the presentation of the shield Mr. D. Anderson, president of the North London Association, asked the Walthamstow Association to hold the shield for the year. Mr. Brown, of Walthamstow, accepted, with a fitting response on sportsmanship. In putting for ladies the lowest scores were Mrs. Parker (Northern) 41, Mrs. Johnson (West Ham) 42, Mrs. Deas (Northern) 42, and Mrs. Tanner (Walthamstow) 43, to whom suitable prizes were presented. The two lowest for the special prize in golf were Messrs. Main and Death, and in the subsequent play Main was winner by 3 and 2. Tea and later light refreshments were served in the large marquee, and dance music was played during the afternoon and in the cool of the evening. Dancing took place in the grounds, and a concert and entertainment was given between 6.30 and 7.30 p.m. The prizes were distributed by Mrs. Mowbray Maw, and a few remarks were made by Mr. Mowbray Maw, Mr. Arthur Maw and Mr. A. F. Porter. A vote of thanks to the House of Maw was accorded by the president of the Pharmaceutical Society, Mr. L. Moreton Parry. Mr. Porter thanked the staff of stewards.

ON June 19 a party of fourteen members of the Manchester and District Pharmaceutical Golfing Society journeyed to Southport and Ainsdale course, where they were met by the Liverpool pharmacist golfers. In the afternoon the competition for the Gibbs challenge cup started in ideal weather conditions. After an interesting afternoon's play tea was taken. Mr. A. J. Pidd, Mr.



Photo] LIVERPOOL TEAM WITH THEIR CUP. [Cleworth

J. G. Duncan and Mr. J. H. Nidd emphasised the good these inter-club matches did in creating good fellowship and friendly relations. Afterwards D. & W. Gibbs's representative presented the cup and replicas to the winners. A hearty vote of thanks was passed with acclamation to the donors of the trophy. The following are the scores:—

Liverpool		Manchester	
Derrick	... 97-22=75	Collins	... 85-10=73
Price	... 86-7=79	Bostock	... 96-18=78
Jewell	... 88-9=79	Dutton	... 101-22=79
Glover	... 97-18=79	Stuart	... 96-14=82
Lloyd	... 102-22=80	Sturdy	... 97-13=84
Alder	... 93-10=83	Edwards	... 100-17=83
Ashworth	... 96-15=83	Fox	... 108-21=87
Fairbairn	... 95-11=84	Gardner	... 107-19=88
	642		654

Liverpool thus won by twelve points, this being their third consecutive win.

Legal Reports

Dangerous Drugs Acts.—At Bow Street Police Court, London, on July 15, Mr. Albert Alberman, pharmacist, Bennett Street, St. Pancras, N., was summoned for offering, without authority, to supply or procure morphine sulphate, morphine hydrochloride, and cocaine hydrochloride, drugs within the meaning of the Dangerous Drugs Acts. He pleaded "Guilty." Mr. Vincent Evans, appearing on behalf of the Director of Public Prosecutions, stated that the defendant sent out a circular offering to supply considerable quantities of the drugs in question. Mr. H. W. Potter, counsel for the defence, said his client regretted having unwittingly offended against the regulations. If he had made application to the Home Office, there was no reason why he should not have been granted the necessary authority. He merely passed on a circular which he received to wholesalers with whom he was in the habit of doing business, and did not appreciate that he was committing any offence. The defendant was fined £25, and was ordered to pay £2 2s. costs.

A Black-Listed Defendant.—In the Mayor's and City of London Court, on July 10, Harry Wiseman, fancy goods merchant, sued Hyman Denton, Arcade Pharmacy, Market Row, Brixton, S.W., described as a druggist, for the sum of £22 9s. 10d. for goods supplied. The defendant paid into Court the sum of £12 5s. 8d., but regarding the balance declared that he had paid the plaintiff personally. Mr. Wiseman said the goods were face powders and similar articles, and refuted the defendant's statement with regard to settlement. He gave details of invoices and payments on account. Mr. Denton: This is one of those unfortunate cases where I can't produce receipts. I am one of the people who are on the black list. Judge Shewell Cooper: What is the black list? He seems pretty proud of it. Mr. Denton: The trading we do is illicit. We do not get receipts. We are not supposed to be supplied with these goods owing to restrictions placed on us by the P.A.T.A. The Judge: So you have no receipts for the payments. Mr. Denton: No, that is the unfortunate part about it. The Judge: So unfortunate that I am afraid it is the end of the case so far as you are concerned. You are supposed to be a business man, and yet you never required any receipts. Mr. Denton: No. The Judge: I do not believe it. I do not believe a word you say. Judgment for the plaintiff for the amount claimed, with costs.

A Defendant's Helpful Admission.—At Preston Borough Police Court, on July 3, William Thomas Watson, New Hall Lane, described as a chemist, was summoned under Section 5 of the Poisons and Pharmacy Act, 1908, for having sold a bottle of Jeyes' Fluid, No. 2, not labelled with his name and address. Mr. A. Blackhurst, who prosecuted, said the proceedings had been instituted by the Pharmaceutical Society of Great Britain. Evidence of purchase was given, and Detective-Inspector Garth deposed that the defendant said he kept a special stamp for marking bottles. The chairman said the Bench would require to be satisfied that the contents of the bottle were poison. Detective-Inspector Garth: The liquid inside is poisonous. The Chairman: How does he know that? Mr. A. Blackhurst: He swears it. The Chairman: We are not prepared to accept him as a judge of its being poison. Detective-Inspector Garth: The bottle is labelled "poisonous" as a poison should be, and it has to be so marked to comply with an Order in Council. Mr. Blackhurst said that if the Bench said it was not a poison he would accept an adjournment to show what the bottle did contain. The chairman said the prosecution would require some evidence that there was an Order in Council beyond the fact that it was so stated on the carton in which the bottle was contained. The defendant said he preferred that the matter should be settled now, and admitted that he ought to have stamped it. The Bench imposed a fine of 5s. and allowed £1 1s. costs, but declined to allow any expenses to the Pharmaceutical Society's inspector.

Damage by Runaway Animal.—In Chester County Court, on July 9, Mr. R. Cecil Owen, B.Sc., chemist and druggist, trading as Huke & Co., 89 Foregate Street,

sued Mr. Peter Bate, farmer, Hatton Farm, for the sum of £23 17s. 3d., in respect of damage alleged to have been caused by the negligence of the defendant or his servants by failing to keep a cow under control in November last. Mr. S. Parnell Kerr, barrister, appeared for the plaintiff, and Mr. G. Ousley Smith was for the defendant. The defendant denied that the plaintiff suffered damage. He denied also that he or his servants were guilty of alleged, or any, negligence; he further pleaded contributory negligence on the plaintiff's part by leaving his premises open on the highway, failing to close the door or barrier between the premises and the highway, and leaving his premises unattended, and his goods and chattels unprotected. Mr. Kerr said that at the time of the occurrence the plaintiff was not in the shop, but Miss Caldercott, who was behind the counter, would say that the cow tried to pass between the dispensing bench and a perfume case. It broke the case, smashing several bottles of perfume. It was some time before the drover in charge of the cow came into the shop. Mr. R. Cecil Owen, giving evidence, said he was not present when the cow entered the shop. Of the damage caused £11 1s. was the cost of repairing a showcase. Miss Caldercott, an assistant, said she was in the shop when the cow entered. The animal got wedged between the dispensing bench and the perfume case. When it moved it broke the case. Mr. W. R. Bate, the defendant's son, gave evidence denying negligence. Judge Whitmore Richards, in summing up, said that there had been an error of judgment on the man's part, which he held was negligence. There would be judgment for the plaintiff, with costs, for £11 1s., the damage done to the glass case, plus the cost of replacing the articles which were destroyed.

Dentists' Water Supply.—In the Chancery Division of the High Court, London, on July 2, the Corporation of Manchester brought an action against Mr. William J. Buttle, L.D.S., Stockport Road, Levenshulme, for a declaration that the water used by him in connection with his dentist's chair was used for a purpose other than domestic, and that the Corporation were under no obligation to supply such water except upon terms to be agreed between the parties. Mr. Farwell, K.C., and Mr. W. Gorman appeared for the Corporation; Mr. Gover, K.C., and Mr. H. E. Kingdon were for the defendant. Mr. Farwell argued that the water was used by defendant for a business purpose. Mr. Justice Eve: I suppose the purpose is merely rinsing out the mouths of the patients? Mr. Farwell agreed. Counsel added that if the water was merely used for throat gargling, that would clearly be using it for a domestic purpose. If it was used to remove blood from a patient's mouth after an extraction, it would be used for a trade or business. Mr. Gover contended that the phrase "trade or business" did not include a profession. His lordship said the defendant was using a portion of his premises for professional or business purposes, and was therefore not entitled to be supplied with water at the domestic rate. There would be a declaration that the Corporation were not bound to supply him with water to his house otherwise than by meter or special agreement between the parties. There would be judgment for the plaintiffs accordingly.—In a King's Bench Divisional Court, on July 17, the Lord Chief Justice and Justices Avory and Branson held that the Derby justices were right when they decided that Mr. Harold James Dawes, L.D.S., Friargate, Derby, should pay a special half-yearly rate for the use of water in his surgery. Mr. Hugh E. Kingdon, for the appellant, said his case was that when the dentist washed out the glass in the surgery he used the water for his own domestic purpose, while the patient who rinsed out his mouth used the water for his own domestic purpose. Mr. Justice Avory: Supposing at an inn all the customers drank water, with nothing in it, would that be for the licensee's trade or business, or for domestic purposes? (Laughter.) The Lord Chief Justice, observing that the case was a difficult one, said he could not agree with the contention that the dentist was using the water for the domestic purposes of himself and his family. In the circumstances the appeal, on the main point, would be dismissed. Leave to appeal was granted.

New Companies and Company News

P.C. means Private Company and **R.O.** Registered Office.

ARCH & Co., CHEMISTS, LTD. (P.C.).—Capital £200. Objects: To carry on the business of chemists and druggists, drug store proprietors, patent medicine proprietors, etc. The directors are: H. Robinson and Mrs. Margaret A. Robinson. R.O.: 4 City Road, Cardiff.

D. SEYMOUR, LTD. (P.C.).—Capital £100. Objects: To carry on the business of opticians, manufacturers of and dealers in ophthalmic, optical, anatomical, orthopaedic, surgical and scientific instruments, etc. The subscribers are M. Davidson and Miss D. Marcus. R.O.: 317 High Holborn, W.C.

W. W. SCOTT & Co. (1929), LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of ophthalmic opticians, manufacturers of artificial eyes and limbs, anatomical, orthopaedic, surgical and scientific instruments, etc. The first directors are: W. Kenny and D. Henderson. R.O.: 180 Sauchiehall Street, Glasgow.

J. B. BRAY (CHEMISTS), LTD. (P.C.).—Capital £1,000. Objects: To acquire the business of a chemist carried on by E. Henchley at The Broadway, High Street, Crowborough. The directors are: J. B. Bray and Mrs. B. A. Bray. R.O.: 1 Staple Inn Buildings, High Holborn, London, W.C.1.

BIOLOGICAL RESEARCH, LTD. (P.C.).—Capital £1,530. Objects: To carry out any form of biological, chemical, physical or other scientific research of any kind, and to carry on the business of chemical, medical, agricultural and horticultural experts and inventors, etc. Solicitors: Roney & Co., 42 New Broad Street, E.C.2.

LATENT LABORATORIES, LTD. (P.C.).—Capital £5,000. Objects: To acquire the business of industrial chemists and engineers carried on by R. Brownlow and G. Ouston at Willing House, 356-360 Gray's Inn Road, W.C., as "Latent Laboratories." The subscribers are: D. E. Jessup and G. C. Lawson.

BRADFORD HATTON, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturing chemists and druggists, manufacturers of optical, surgical and scientific instruments, etc. The directors are: C. E. Bradford, H. H. Cocking, and A. H. Hatton. R.O.: 292 Holloway Road, N.7.

MAYFAIR SOAP Co., LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of soap manufacturers, manufacturers of and dealers in oils and oleaginous and saponaceous substances, and toilet requisites, etc. The subscribers are: H. T. Weatherhead, J. H. Osborn and M. Desmond. R.O.: 150 Fenchurch Street, E.C.

SUPERFLO (1929), LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in perfumes, alcohol, powders, soaps, and all kinds of goods, wares, merchandise and produce, etc. The subscribers are: Miss Evelyn K. MacLeod and L. P. MacLeod. Solicitors: Middleton, Lewis & Clarke, 22 Great St. Helens, E.C.

F. G. HUGHES & Co., LTD. (P.C.).—Capital £5,000. Objects: To carry on the business of manufacturers, shippers, importers and exporters of and dealers in any goods or merchandise, particularly in gums, shellacs, paints, varnishes and asphaltums, etc. The directors are:—F. G. Hughes, H. H. Austin and A. T. Treglown. R.O.: 4 Cullum Street, E.C.3.

FONODORISER CHEMICAL COMPANY, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers of disinfecting devices for telephone mouthpieces and speaking tubes, and hygienic apparatus, chemical engineers and merchants, etc. The permanent joint managing directors are: W. D. Dick and H. J. Charlton. R.O.: Fonodoriser House, Harvey Road, S.E.5.

A. GIFFIN & Co., LTD. (P.C.).—Capital £1,200 in £1 shares. Objects: To carry on the business of importers of and dealers in essential oils, scent, drugs and chemicals of all kinds, pharmacists, chemists, druggists, etc. The directors are:—A. C. Stirling, Strawberry Cottage, Carshalton, Surrey, and A. A. L. Giffin, 51 Hazelbank Rd., Catford, Kent. Solicitors: Elwell & Binford Hole, 65 Coleman Street, E.C.2.

MATLAND'S PHARMACIES, LTD.—Mr. A. G. White, C.A., of 14 Old Jewry Chambers, E.C.2, was appointed receiver on July 2, under powers contained in debenture dated February 23, 1929.

PRUNOL, LTD.—At a meeting held in London on June 13 it was resolved that this company be wound up voluntarily. Mr. J. J. Middleton, Kingsbury House, King Street, St. James's, S.W.1, was appointed liquidator, and a meeting of creditors was held at the above address on June 28.

OPPENHEIMER, SON & Co., LTD.—The fortieth annual report for the year ended April 30, 1929, states that the trading profit amounted to £27,829 11s. 7d., which sum added to the amount of £19,523 18s. 8d., brought forward, makes a total of £47,353 10s. 3d. Deducting from this sum the various amounts detailed in the appropriation account there remains a disposable balance of £22,603 17s. 6d. The directors recommend that this balance be appropriated as under: In payment of a dividend of 12½ per cent. (less tax) on the ordinary shares amounting with tax to £14,250; to general reserve, £5,000; leaving to be carried forward, £3,353 17s. 6d. The directors state that the reconstruction of the freehold laboratories is proceeding satisfactorily. Mr. J. P. T. Evans retires from the Board, but offers himself for re-election.

Voluntary Liquidation

A. J. Ancliffe & Co., Ltd., 17 Trafalgar Place, Stoke, Devonport (in voluntary liquidation).—Pursuant to Section 188 of the Companies (Consolidation) Act, 1908, a meeting of creditors will be held at Kimberley House, Holborn Viaduct, E.C., July 18, 1929, at 12 o'clock noon. The creditors are required on or before August 12, 1929, to send in their names and addresses and particulars of their debts or claims and the name and address of their solicitors (if any) to Parkin Stanley Booth, Kimberley House, Holborn Viaduct, London, E.C.1, certified accountant, the liquidator of the above-named company; and if required by notice in writing from the said liquidator should, by their solicitors or personally, come in and prove their debts or claims at such a time and place as shall be scheduled in such notice, or in default thereof they will be excluded from benefit of any distribution made before such debts are proved.

Business Changes

Miss E. A. BOLTON, chemist and druggist, has taken over the County Pharmacy, 8 High Street, Dingwall.

BOOTS, LTD., have taken over the business of Mr. G. C. Wood, chemist and druggist, 5 George Street, Pontypool.

Mr. F. J. MARTIN, Ph.C., has relinquished his business at Kilnhurst Road, Ryecroft, Rotherham, and has taken over a shop at 384 Handsworth Road, Sheffield, which he will carry on in his own name. [Corrected note.]

THE manufacture and supply of Curacho is again under the direct control of the originator, Mr. C. Findon Waters, and the Curacho Works have been removed from Western Road, Borough Green, Sevenoaks, to 11 Ryecroft Road, Lewisham, London, S.E.13.

BOOTS, LTD., have acquired the business of Goodess City Pharmacy, Ltd., 20 Market Street, Leicester. Mr. F. W. Goodess, chemist and druggist, retired two years ago when the company was formed; he had carried on the business (which was established in 1826) for over forty years.

Gazette

Bankruptcy Acts

RECEIVING ORDER AND ADJUDICATION

NICHOLLS, J. H., 3 Chase Road, Brownhills, near Walsall, Stafford, chemist.

Summer Outings

B.D.H. at Margate

UPWARDS of eight hundred employees of The British Drug Houses, Ltd., enjoyed a pleasant day at Margate on June 22. Dinner was taken at Dreamland, the managing director (Mr. C. A. Hill) presiding, supported by Mr. R. M. Harvey and Mr. A. Francis. A vote of thanks to the directors was proposed by Mr. H. S. Collins (works manager), who mentioned the unavoidable absence of Mr. F. H. Carr, and asked the managing director to tender to him the congratulations of the employees on the fact that the honorary degree of D.Sc. was to be conferred upon him during the following week. He also offered renewed thanks for the provision of the sports ground, which had filled a long-felt want. The toast was enthusiastically received. Mr. Hill replied in his usual happy manner, and hoped that next year a still larger number of the employees would be able to attend and carry the number to well over four figures. Tea was also provided at Dreamland, and there were plenty of amusements to keep the company fully occupied until the time for departure arrived.

Blackburn Chemists in North Wales

MEMBERS of the Blackburn and District Chemists' Association spent an enjoyable day in North Wales on June 20. Lunch and dinner were served on the special corridor train to enable the party to devote the whole of their time to sight-seeing. On arriving at Conway the various places of interest in this old-world town were inspected.



Photo]

[Egan, Blackburn

prior to a circular motor tour extending over eighty miles throughout the beauty spots of North Wales. There were stops at Swallow Falls and Bettws-y-Coed. The organisers were heartily thanked.

Wallasey Pharmacists

MEMBERS and friends of the Wallasey Pharmacists' Association, numbering thirty-four, had an enjoyable outing on July 3, when they journeyed to Llandudno in the s.s. "St. Elvies." After tea the party divided into sections, the main party going round the Great Orme's Head in motor-cars. One of the cars was delayed by a puncture, but it managed to get back in time for the passengers to get aboard the steamer for the return journey. Among those who made the excursion, which was generally voted as one of the most successful ever arranged by the Association, were Mr. Horace Siddall (president), Mrs. Siddall, Miss Dorothy Siddall, Mr. J. Valentine (vice-president), Mr. H. D. Williams (treasurer), Mrs. Williams, and Mr. H. C. Tristram (secretary), to whom much credit is due for the arrangements.

A Fassett & Johnson Event

ON June 15, the staff of Fassett & Johnson, Ltd., held their annual dinner at the Grand Hotel, Folkestone. The party travelled from London to Folkestone by train, and 124 sat down to dinner, which was presided over by Mr. L. O. Johnson, governing director. Mr. Johnson was supported by Mr. R. R. Hunting, Captain and Mrs. Johnson, and Mr. T. W. Henry, a member of the South African staff. After the loyal toast had been proposed, Miss L. F. Wilson proposed the toast to "The Firm." This was received with enthusiasm, and Mr. L. O. Johnson was given a great reception when responding to the toast. He thanked the staff for the loyal manner in which they had worked. Mr. Johnson's remarks were seconded by Mr. R. R. Hunting, who also proposed a vote of thanks to the committee. Mr. H. M. Kennett, secretary of the

entertainment committee, in responding, took the opportunity of thanking the directors for the financial assistance, which enabled the committee to carry through their arrangements. The committee consisted of Misses L. Lampard, J. Pound, and L. F. Wilson, Messrs. A. R. Smith, J. H. Jenner and H. M. Kennett.

Aberdeen Association's Motor Tour

THE members of the Aberdeen Pharmaceutical Association held their annual summer outing on June 19. New ground was broken on this occasion, the venue being Glen Clova in Angus. In beautiful weather a party of



AT CORTACHY CASTLE

(Mr. A. P. Wallace, president of the Aberdeen Chemists' Association, is standing second from left side).

nearly fifty travelled by rail to Forfar, thence by motor through Kirriemuir, the window celebrated by Barrie's "A Window in Thrums" being inspected, and up through the valley of the South Esk to Cortachy Castle, where half an hour was spent in the wooded grounds. The party proceeded ten miles up the glen to the Milton of Clova, where tea was served in the Ogilvy Arms Hotel, 780 feet above sea-level. The president (Mr. A. P. Wallace) welcomed the company, giving special welcome to the members of the wholesale houses and to Miss Barclay, deputy clerk of the Aberdeen Insurance Committee. The secretary gave an interesting account of the district. The mounths or hill passes crossing the hills at over 3,000 feet, and leading to Braemar and Ballater, were also described. Votes of thanks were accorded to Mr. Mutch, Mr. Elder and the secretary (Mr. H. M. Dugan) for organising the arrangements.

West Ham Pharmacists at Woburn

THE annual outing of the West Ham District Association of Pharmacists took place on June 13. Members assembled at Stratford Broadway and were conveyed by motor coaches via Leytonstone, Chingford Green, Ponders End, Botany Bay, Potters Bar, St. Albans and Dunstable, arriving at Woburn about 4.30. Tea was



served at the Bedford Arms Hotel. A move was then made to Woburn Park, and at 8 p.m. the homeward journey, through Woburn Park, Ampthill, Shefford, Hitchin, and Hatfield, was started. The weather proved favourable. During tea the president (Mr. J. Thomson) made a short speech, in which he referred to the fact that one of their secretaries had been interested in the keeping of foreign birds and that he had on several occasions supplied red cardinals, which were liberated on the Woburn estate.

Trade Notes

CURRENT PRICES of their specialities appear in the advertisement of "Akur" Prescriptions Co., Ltd., 15 Featherstone Buildings, Holborn, London, W.C.1.

DEVELOPING AND PRINTING.—Britannia's, Ltd., 72A Shakespeare Street, Nottingham, announce the completion of an extension of premises for the purpose of amplifying their developing and printing connection.

SPECIAL OFFER.—Blyton, Astley & Co., Ltd., Eagle Laboratories, Lower Broughton, Manchester, give particulars in their advertisement of a special offer of Menthells, which is available for chemists only.

D. & W. GIBBS, LTD., City Soap Works, Wapping, London, E.1, call attention to a front page "Daily Mail" advertisement which is to appear on July 25, and suggest that chemists should arrange their displays accordingly.

CHEMAMY (London Agents, Parfumeries de Paris, Ltd., Larden Road, Acton, London, W.3), announce on another page the issue of a style of face powder retailing at 4½d. A display cabinet is given with one-gross orders, and the powder is obtainable in four perfumes.

EXTRA DISCOUNT.—Tokalon, Ltd., 212/4 Great Portland Street, London, W.1, announce that one order for their skin foods will be executed any time prior to August 15 subject to extra discount, and that advertising on a large scale has been planned in national and local newspapers and magazines.

VITAMIN MALTED CHOCOLATE.—Meggeson & Co., Ltd., Beirmondsey, London, S.E.16, call attention to their Malted Vitamin Chocolate, which contains vitamins A, B, C and D. This nutritive product is attractively packed in a distinctive wrapper and (as might be expected) is of excellent flavour.

OPENING ORDERS.—We have received from Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool, a copy of a scheme for a suggested order to be given on opening a pharmacy. Further particulars of the booklet, which measures 9½ in. by 6 in. and comprises thirty-six pages, will be found elsewhere in this issue.

WEIGHING MACHINE.—The Gem Automatic Weighing Machine Co., Ltd., 48 New City Road, Glasgow, C.4, give particulars on another page of this issue of a Gem automatic weighing machine, which is finished in three standard colours and works without any supervision. A list of London and provincial agents appears in the advertisement.

Wills

MR. JOSEPH WILLIAM GILL, PH.C., of 52 Seedley Road, Pendleton, Salford, Lancs., left £5,448 12s. 10d. gross, with net personalty £4,846 6s. 7d.

MR. FREDERICK HUGHES ROGERS, of 52 Leigh Road, Hale, Cheshire, chemist and druggist, of 22 Victoria Road, left estate of the gross value of £4,728 4s. 9d., with net personalty £4,585 14s. 9d.

MR. AUBREY HOWARD DREW, of Salcombe, Newcombe Park, Mill Hill, London, N.W., pathologist, engaged at the Mill Hill Laboratories of the Imperial Cancer Research Council, who died on April 21 last, intestate, left estate of the gross value of £2,279, 10s. 9d., with net personalty £1,005.

MR. WILLIAM PERKES PARRY, M.P.S., of 4 Croydon Road, Reigate, Surrey, who died on April 27 last, left estate of the gross value of £12,226 0s. 8d., with net personalty £11,413 10s. 8d. Probate of his will has been granted to his sons, Dr. Leonard Arthur Parry, M.D., and Ernest John Parry, and his daughter Mrs. Florence Eliza Jones. He left £1,500 to his daughter Florence Eliza Jones, all his French securities equally between his four children, Leonard Arthur, Ernest John, Florence Eliza Jones and Minnie Leisa Parry, and the residue of his property between his children Leonard Arthur, Ernest John and Florence Eliza Jones, his daughter Minnie Leisa Parry being otherwise provided for.

Trade Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1929, p. 333.

(From "The Trade Marks Journal," June 19, 1929.)

- "MOUSTICA"; for all goods (3). By G. C. C. Schröder, 9 Sykes Street, Hulme, Manchester. 502,468. (Associated.)
- "FAEXALIN"; for medicinal chemicals (3). By H. Temmler, Flugplatz 6, Berlin-Johannisthal, Germany. 502,592.
- "PHOTOMATON"; for all goods (8). By Photomaton Parent Corporation, Ltd., Pimmers Hall, Austin Friars, London, E.C.2. 497,820. (Associated.)
- "FLEXA"; for toilet paper (39). By J. E. Watts, 1 Julian Road, West Bridgford, Nottingham. 500,981.
- "KOSMOFLOR"; for toilet articles (48). By Schimmel & Co., A.G., Schimmelstrasse 1, Miltitz, Germany. 493,275. (Associated.)
- "RUSKANA"; for a perspiration deodoriser (48). By Tibo Products Co., Ltd., Audrey House, Ely Place, London, E.C.1. 501,360.

(From "The Trade Marks Journal," June 26, 1929.)

- "SEGECURA"; for veterinary medicines (2). By Chapman & Son (Grimsby), Ltd., 235 Cleethorpe Road, Grimsby. 503,118.
 - "SHELL BRAND" under device of shell on black square; for chemicals (2) for sale in Great Britain and Northern Ireland, and for export to and sale in the Irish Free State only. By Shell-Mex, Ltd., St. Helen's Court, Great St. Helen's, London, E.C.3. 498,702. (Associated.)
 - "THYMOSEPTOL"; for a mouth wash (3). By J. T. Coats, 105 Broughton Street, Edinburgh. 496,567.
 - "VAROM"; for chemotherapeutic and anthelmintic medicines (3). By I. G. Farbenindustrie A.G., Mainzerlandstrasse 28, Frankfurt-on-Main, Germany. 499,124. (Associated.)
 - "NATIVOPHOS"; for a pharmaceutical and dietetical preparation containing vitamins and salts of the inosit-hexaphosphoric acid (3). By Cristallo A.G., Thusis, Switzerland. 499,232.
 - "KONJOLA"; for all goods (3). By G. H. Mosby, 3202 Reading Road, Cincinnati, Ohio, U.S.A. 500,081.
 - "YELLOWBOY-BRAND" with device of boy using pestle and mortar; for medicines (3). By W. B. Dixon, Shaws, Uppermill, near Oldham. 502,448.
 - "ST. JACOBS OIL" with picture of house and trees (the word "Oil" may be varied); for medicinal chemicals (3). By St. Jacobs Oil, Ltd.; Cleveland Hall, Cleveland Road, Barnes, London, S.W.13. 502,515. (Associated.)
 - "FIRADOL BRAND"; for medicinal chemicals (3). By H. R. Napp, Ltd., 3 & 4 Clement's Inn, Kingsway, London, W.C.2. 502,903.
 - "SKAPYOR"; for medicinal chemicals (3). By Société Anonyme Laboratoires Eska, 76 Rue Orfila, Paris. 502,953.
 - "LIVADEX"; for medicinal chemicals (3). By The British Drug Houses, Ltd., 16-30 Graham Street, London, N.1. 502,955.
 - "FOUADIN"; for medicinal chemicals (3). By Bayer Products, Ltd., 31 Basinghall Street, London, E.C.2. 503,040. Design incorporating three-faced head; for perfumery, etc. (48). By W. J. Bush & Co., Ltd., 28 Ash Grove, Hackney, E.8. 498,265. (Associated.)
 - "MARMAY"; for perfumery, etc. (48). By Marie Mackay, 23 Ashburnham Mansions, Chelsea, S.W.10. 502,588.
 - "NORSIKO"; for teeth-cleaning preparations (48). By Aktieselskabet Si-Ko, Jernbanetorvet 4, Oslo, Norway. 502,589.
 - "PERSPIROL"; for cosmetics (48). By Dr. M. Albersheim, 15-17 Lützowstrasse, Frankfurt-on-Main, Germany. 502,774.
- (From "The Trade Marks Journal," July 3, 1929)
- "CHEMNERT"; for chemicals (1). By Building and Colliery Supply Co., Ltd., 107 Irving Street, Birmingham. 500,193.
 - "EXIT"; for all goods (1). By Palmer & Co., Ltd., Warton Road, Stratford, E.15. 502,549. (Associated.)
 - "WATRIC"; for chemicals (1). By Watric Co., 13 Woodstock Street, London, W.1. 502,569. (Associated.)
 - "NUGASEN"; for all goods (1). By New G. & S. Processes Syndicate, Ltd., 35-36 King William Street, London, E.C.4. 502,354.
 - "VARIAMIN"; for all goods (1). By I.G. Farbenindustrie A.G., 28 Mainzerlandstrasse, Frankfurt-on-Main. 503,257.
 - "VALOFIN"; for a medicated preparation (3). By Chemische Fabrik Helfenberg A.G., 13 Karl Dieterichstrasse, Helfenberg, nr. Dresden. 493,780.

Births

Notices for insertion in this column must be properly authenticated.

HUBBERT.—At Woodhall Spa, on July 13, Annie Shepherd (*née* Barton), the wife of W. H. Hulbert, chemist and druggist, of a daughter.

JOINT.—At 215 Forton Road, Gosport, on July 13, the wife (*née* Flora Kent) of H. R. Joint, M.P.S., of a son.

LINCOLN.—At 56 Darnley Road, Gravesend, on July 13, Ruby (*née* Howlett), the wife of John Hereward Lincoln, chemist and druggist, of a daughter (Gillian).

Marriages

BAILEY—READE.—At St. Stephen's Church, Clapham Park, London, E., on June 17, Eric Bailey, chemist and druggist, Harrow Road, N.W.10, to Doris Lilian Mary Reade.

BROWNE—SMITH.—At St. Matthew's Parish Church, Silksworth, on June 15, Arthur Charles Browne, chemist and druggist, to Marion Smith.

FARR—JENKINS.—At Leatherhead, on July 3, Francis Edward Farr, chemist and druggist, High Street, Uckfield, to Doris Jenkins.

JONES—MILLER.—At St. Giles's Church, Camberwell, on July 8, Evan Howell Jones, chemist and druggist, to Winifred Miller.

ROBERTS—WALTERS.—At Welsh Baptist Church, Castle Street, London, W.1, on July 7, Noel S. Lloyd Roberts, B.A., Carnarvon, to Rachel Harris Walters, M.P.S., elder daughter of Mr. Walters, Llwynfedwen, Farmers, Llandilo.

STANLEY—LEWIS.—At Moorland Road Congregational Church, Weston-super-Mare, on June 18, Rowland Percival Stanley, chemist and druggist, to Amy Lewis.

WILLIAMS—TOOP.—At St. Saviour's Church, Cardiff, on June 25, Albert Harold Williams, chemist and druggist, to Edith Lavinia Toop.

Deaths

BROOKER.—At Croydon Hospital, on July 11, from injuries received in a motoring accident, Mr. Ernest Herbert Brooker, chemist and druggist, a director of Trimming & Co., Ltd., chemists, Alresford, Hants.

EMERY.—At 41 Spencer Road, Grove Park, London, W.4, on July 14, Mr. Charles Frederick Emery, aged seventy-six. Mr. Emery was in charge of the London branch of the Chesebrough Manufacturing Co. (Cons.), of New York, for fifteen years, retiring in 1920. He was the company's pioneer salesman, having represented them in 1878.

JONES.—On July 10, Mary, the wife of Mr. Charles Alfred Jones, M.P.S., 85 Victoria Dock Road, West Ham, London, E.16.

RANKIN.—At Bangor, on July 12, suddenly, Mr. William James Rankin, chemist and druggist, principal of the firm of W. J. Rankin & Son, manufacturers' agents, 11 Waring Street, Belfast, aged seventy-two. Mr. Rankin served his apprenticeship with W. H. Bell & Co., 79 Peter's Hill, afterwards starting in business for himself as chemist and druggist in New Lodge Road. He was one of the first chemists and druggists registered under the Irish Act of 1890. He sold his business in 1897 to Ulster Chemists, Ltd., and has since been Irish representative of Blyton, Astley & Co., Ltd., Manchester; Gustav Boehm, London; and Beatson, Clark & Co., Ltd., Rotherham. Mr. Rankin was secretary of the Chemists' and Druggists' Society of Ireland for twenty-eight years, and also filled the position of president. He had also been treasurer of the Ulster Retail Drug Trade Association since its inception about thirty years ago. Mr. Rankin was presented with testimonials by both these organisations in 1913 and 1914 respectively. He was one of the foundation members of the Council

of the Pharmaceutical Society of Northern Ireland, from which position he retired last year. Mr. Rankin, who qualified as a chemist and druggist in Northern Ireland in 1926, had long taken an active part in pharmaceutical politics in Ulster. In 1890 he was one of those who attended the British House of Commons and took part in the shaping of the Act of that year. In the passing of the Pharmacy and Poisons Act of the Northern Government in 1925 he also took an active interest. Mr. Rankin was an elder in Berry Street Presbyterian Church, and filled the position of clerk of session for forty years. He was loved by all with whom he came in contact, his unaffected disposition and his goodness making him friends wherever he went. He is survived by a widow, three sons and three daughters. One of his sons, Mr. W. J. Rankin, jun., is a partner in the firm, with which his third son is also connected. The funeral took place at the City Cemetery on July 13, and was largely attended.

TAYLOR.—At his residence, 54 Highbury, Jesmond, Newcastle-upon-Tyne, recently, Mr. John Henry Taylor, chemist and druggist, senior director of Taylor Gibsons, Ltd., chemists, 52 Stowall Street, and chairman of John Mackay & Co. (Newcastle), Ltd., mineral-water manufacturers, Corporation Street, aged fifty-seven. Mr. Taylor served his apprenticeship with Brady & Martin. After representing Parke, Davis & Co. for several years in Edinburgh and Glasgow, he acquired the Newcastle business, which he converted into a limited company in 1920. Mr. Taylor was a freeman of the city and a member of the committee of the Pen and Palette Club. He leaves a widow.

Personalities

MR. WILLIAM FRANK YOUNG, chemist and druggist, has been appointed a magistrate for the borough of Liskeard. Mr. Young has been a member of the Town Council for twelve years, and served as Mayor from 1923 to 1926.

MR. A. R. G. CHAMINGS, Ph.C., acting head of the pharmacy department of the Leicester College of Technology, has obtained the degree of Bachelor of Pharmacy. Mr. Chamings was apprenticed with Wands, Ltd., chemists, Leicester. He passed the Major examination in April 1926.

MR. AND MRS. F. GLADSTONE HINES and their daughter are leaving this week for Canada on a short visit. They propose returning from New York in August in time to fulfil their political engagements in the Loughborough Division, where they are again to be welcomed at a large Liberal demonstration.

MR. ASTELL J. WILLSON, a South African representative of The British Drug Houses, Ltd., is on a short visit to this country. Mr. Willson is the special correspondent of THE CHEMIST & DRUGGIST in South Africa. He is the "father" of British representatives in the trade, having been in South Africa for over thirty-five years. Mr. Willson is a freeman of Dublin and a prominent mason.

COUNCILLOR T. ENGLAND, chemist and druggist, Romford, recently addressed the Urban District Councils Association at Llandrindid Wells on the subject of housing. In moving a resolution to the effect that the Conference welcomed the help given to housing conditions by the Small Dwellings Acquisition Act and the building societies, Mr. England gave a lucid summary of present housing conditions, and urged the need for a bold and comprehensive policy on the part of the authorities.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

B/177. Borosol	B/167. Dr. Gregory's Oils
B/157. Cornutine corn plasters	B/177. Heroto
D/177. Frames' Guinea sprayer with patent funnel	F/157. Kennott's tooth-paste
	N/157. Lundborg's perfumes (present London supply)

Observations and Reflections

By Xrayser III

Pharmaceutical Formulas

have evidently been sifted most thoroughly in the preparation of the tenth edition of the book so named, now announced as having been published (*C. & D.*, July 13, p. 60), and the additions made to the contents of the book must be exceedingly numerous. This much is clear from your illuminating description of the newcomer in the world of formularies, and I must admit to a curiosity which will not be satisfied until I have obtained a copy of the attractive work and spent some considerable time in studying its contents. It was a revelation to chemists when the first issue of "Pharmaceutical Formulas" saw the light, nothing so practical and helpful having been known previously. Each consecutive edition has presented some material improvement, and it seems logical to assume that the tenth edition will not vary the good record.

Turnover and Profit

of retail dealers in proprietary articles are bound to be appreciably less than they might be so long as the system of which Mr. L. H. Eyres complains (*C. & D.*, July 13, p. 74) is allowed to persist. At the same time it is not easy to suggest how the evil is to be remedied under existing conditions. Our trade organisation is not strong enough to enable us to dictate to manufacturers and wholesalers as to whom they may or may not supply with goods. I do not refer to any particular organisation, but to the trade organisation of chemists and druggists generally. Possibly the P.A.T.A. might do something in the desired direction, but so far as I am aware it does nothing of the kind. We are also up against the weakness inherent in the system which permits dealers in proprietary goods of particular kinds to procure on best trade terms proprietary goods of other kinds. If a chemist and druggist makes use of facilities he enjoys to purchase for his own use at wholesale rates goods which he never handles in the course of his regular business, he can hardly complain of the action of others who do the same thing. After all, none of us is entitled to claim a monopoly for reasons which are not stronger than those that can be advanced by anyone else.

Curriculum Arrangements

of the Pharmaceutical Society appear already to be in need of amendment, since it is reported (*C. & D.*, July 13, p. 63), that one of the chief causes of failure at the Preliminary Scientific examination has been that students were "signed up" for entry when they had completed the minimum number of hours, irrespective of their having done satisfactory work or completed the school course. This, of course, is an absurd position, and the sooner it is required that responsible teachers shall vouch for the fitness of their pupils to undergo examination, the sooner will there be a drop in the big percentage of failures. Attendance at courses of instruction is not in itself sufficient to educate students, but as matters stand they are apparently permitted to have "a shot" at the examination while still only imperfectly informed about the subjects of which their knowledge is to be tested. Teachers should have power to remedy such a state of affairs, not only on the ground of unsatisfactory attendance and conduct, but also if they are not satisfied that students are sufficiently well acquainted with the subjects of examination for their fitness to be tested.

Methylated Spirit

for all medicinal purposes ought surely to be invariably the industrial variety, and it seems a pity there should not be a concerted effort on the part of the different pharmaceutical organisations to secure this. From time to time I read of special concessions being made in particular cases, but so long as careful records are kept of the uses to which the spirit has been put, I see no reason why chemists and druggists should

not be permitted to use the industrial spirit as a matter of course for all medicinal purposes. At the executive and annual meetings of the North British Branch of the Pharmaceutical Society (*C. & D.*, July 13, p. 65), reference was made to various points arising in connection with the medicinal use of methylated spirit, and it seems absurd that there should exist so much uncertainty on the subject among Excise officers and others. Our standing as trained and educated persons should entitle us to be allowed a reasonable measure of responsibility in this matter, the more particularly as there need be little if any risk to the national revenue, while the public would benefit by the use of the uncoloured methylated spirit for medicinal purposes. Anyone found to be abusing the concession to use the industrial spirit should have his supplies incontinently cut off, just as is done in the case of morphine and other drugs when gross breaches of the Dangerous Drugs Regulations are proved to have occurred.

Among the Plants

mentioned by Mr. Sargent at the meeting of the British Pharmaceutical Conference as furnishing the Irish native materia medica is the broom, which has been almost continuously official in this country for over 300 years. It was given a place in the first London Pharmacopœia in the list of herbs and in that of flowers. The Latin and Greek names given to it are *genista* and *spartion*, together with variants of them. In English it has been known as broom from very early times. The Old English forms "brom" and "bromc" are found in MSS. of the fourteenth century. In the printed herbals of the fifteenth and sixteenth centuries it is met with under the Latin name of *genista*. It is not easy to suggest at what particular period our official drug first came into use. The references to a similar plant found in Dioscorides, Galen and Pliny under the names of *spartion*, *sparton* and *genista*, indicate a different one, perhaps the Spanish broom, from ours. Prior to the Pharmacopœia Londinensis of 1746 the herb and flowers were the parts recognised for medical use, and the flowers were much more generally employed than the herb. A fourteenth-century recipe will serve as an example of the preparations in which it was an ingredient: "For to make vnguentum geneste—Gadre floures of brom and wede-wixin [dyer's weed] and stamp hem with botur and let hym stoude al night and no more; and a-morwe mult hym in a panne, and poure hit. This oymnent ys goud for alle cold goutes and other cold euellys and slepyng of heuyd therfor."

Gerard Says

that broom buds were gathered at the end of April or beginning of May and put into pickle or salt, and then washed or boiled and used in salads. They could be employed as a relish in place of capers. John Evelyn, in his "Acetaria" (1699), gives a method for pickling them. The ashes of the flowers had a reputation as a diuretic, and were a chief ingredient in some of the medicinal ales so common in the early eighteenth century. One writer makes an observation on this matter, which has a topical interest, to the effect that he cannot see why broom ashes should produce an action different from that of any other ashes. There is a further piece of information concerning the medical history of broom flowers given by Gerard, who states: "That worthy Prince of famous memorie Henry 8, King of England, was wont to drinke the distilled water of Broome floures, against surfets and diseases thereof arising." But this plant had a much more worthy association with English kings than the correcting of their surfets. "The Broom, the bonny, bonny Broom," the emblem of humility, is known to every student of our history as the heraldic device of the Plantagenets ("planta genesta"), of whom the first to bear it here was Henry II, whose father is said to have carried a golden spray of it, in his helmet, into battle. There are other legends accounting for this family name, and there are other interesting matters associated with this plant which is so characteristic a feature of the English spring-time.



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Editorial Articles

Co-operators in Parliament

At the recent general election the co-operative societies' organisation caused questions to be put to a number of candidates in the following terms:—

- (1) Will you support legislation to make the restrictive operations of price-maintenance associations illegal?
- (2) Are you willing to support the demand for an inquiry into the methods and effect of the Proprietary Articles Trade Association and other price-maintenance associations?
- (3) Will you vote for the repeal of the National Health Insurance Regulation prohibiting the payment of co-operative society dividend on N.H.I. prescriptions dispensed by co-operative drug departments?

We do not know at present what measure of success the co-operative movement has achieved by its working agreement with Labour in a large number of constituencies, but we have little doubt that it will prove to have been considerable. We may therefore expect, as things have turned out politically, a determined effort in the new Parliament to bring about some of the results for which the co-operators have recently been agitating. How such an effort can best be met is a matter for careful consideration. There is little doubt that the co-operative movement has been greatly consolidating its position during the last few years; and while there will be every desire on the part of pharmacists as a body to avoid coming into conflict with any other body, there seems every prospect of their being called upon strenuously to resist a determined effort to prejudice their interests in the future. It is a curious thing that a movement which makes so much display of the benefits it confers upon all and sundry who associate themselves with it either as employees, shareholders or customers, and whose apologists miss no opportunity of proclaiming their liking for all that is fair and equitable in business, should be anxious to capture the National Health Insurance of the country—for that is,

in plain language, what it is seeking to do. Why should co-operative societies be allowed to get hold of this business by holding out to the millions of insured persons the bribe of an allowance in respect of every prescription taken to the "co-op." stores? As for the renewed onslaught on the P.A.T.A., the answer to that is once again that the P.A.T.A. is not a "price-maintenance" association, but an organisation to prevent unwholesome cut-throat competition of the sort that co-operative orators will denounce from the platform at endless length when opportunity presents itself for doing so. The principle at stake here is precisely the same as in the matter of National Health Insurance, and it is idle to pretend that the co-operative societies are moved by any sense of righteous indignation at injustice to themselves. What the co-operative societies want—to put the thing quite simply—is to capture as large a share as possible of the business in advertised proprietary articles. They would achieve this if they were allowed to sell proprietaries at P.A.T.A. prices (which, of course, they would want to do), while being permitted at the same time to give it out to their customers that they would secure a discount ("dividend") on these articles. The retail trader, striving to earn a livelihood next door, might lose all his business to them—they are out for the destruction of the individual trader and the substitution of a co-operative bureaucracy to take his place. The arguments, however, have been stated so many times that repetition is needless here. What we are concerned about is the preparation of means effectively to resist the threatened attack. Experience shows that the best way to meet offence is to carry the war into the enemy's country. Chemists and traders of all classes might be wise to promote a movement for securing an impartial investigation, at the hands of independent accountants, into the whole financial interests of the co-operative movement of the present day.

A Sharp Rally in Sugar

INTERESTING developments, accompanied by a very sharp upward movement, have been witnessed in the sugar market recently, and raw sugar producers have been afforded a little relief from the extremely acute depression which prevailed over a lengthy period. It is not overstating the market views which have gained ground, to say that there has been a distinct change for the better and that fundamental conditions have become healthier and should tend to strengthen further as time goes on, subject, of course, to crop indications. Whereas trade conditions were still very apathetic until towards the middle of June, when the general position was still chiefly dominated by Cuban selling pressure at record low rates at a little below 7s. 9d. per cwt. c.i.f. U.K.-Continental ports, with the terminal market for raw sugar severely depressed down to about 7s. 2½d. for August delivery, there since ensued a sharp change of feeling. Speculative dealings in raw sugar were suddenly galvanised into considerable activity, transactions running into about 200,000 tons a week, such activity not having been seen for a long while past. Prices responded swiftly with some excitement, at one period up to 8s. 10½d. being paid for August delivery under an intense run of covering operations by short interests and a revival of new speculation. The main factors which led to this remarkable transformation were the keenness of trade demand to replenish exhausted stocks and the fear of continued dry weather affecting the Continental beet crops. The huge sales which were effected for delivery into consumption, especially by British refiners, obviously enabled them to successively advance their terms to a substantial extent, while British fine granulated has been raised from the lowest figure current in June of 23s. 1½d. up to 24s. 7½d. Some of those factories originally created for the handling of

home beet sugar under the subsidy, but which eventually adapted themselves for the treatment of imported raw cane sugar, also shared to a large extent in the recent activity. Simultaneously with the genuine revival of buying in the home trade, and under the influence of the various reports circulated from Cuba suggesting that the marketing of supplies and even production in the next campaign would again be placed under Government control, very heavy purchases were effected from Cuba. These may be placed at approximately 300,000 tons since the rallying movement commenced, and they were chiefly for export outside of the United States. American refiners have also been more anxious to make provision for their prospective needs and Cuban shippers were thus well able to retrieve their position to the extent of about £2 per ton from the worst of the depression. The export surplus having now been reduced to comparatively small dimensions, it is obvious that Cuba is in a much stronger position. Offers from that quarter have been more restricted, and it is interesting to note that the shipments from the island have been heavy for weeks past; this is expected to continue during the remainder of this month and August. The working off of the Cuban surplus this season is being effected far more easily than had been anticipated some time ago, while the stocks at Cuban ports are now only about 100,000 tons in excess of this time last year, in spite of this season's crop amounting to about 5,150,000 tons, an excess of 1,150,000 tons compared with the previous season's yield. Undoubtedly the effects of the long depression have been, and will probably continue to be, very severely felt in Cuba for some time, while current prices are still comparatively low, but the outlook in the commodity is certainly distinctly brighter. A factor, which was undoubtedly generally underrated, has been the substantial extent to which the world's consumption has been stimulated during the protracted period of low prices. In our issue of June 1 last we pointed out that home consumption in four months had been increased by 162,000 tons, while the increase for the six months to the end of June amounts to close on 190,000 tons, compared with the same period last year. Statistical returns for the U.K. covering the first half of the year indicate a substantial increase in the imports of raw sugar, whereas the receipts of imported refined sugar have fallen considerably. This is, of course, the outcome of the drastic fiscal change in the 1928 Budget, and has placed the British refining industry in a much stronger position, while being practically freed from outside competition. With the heavy increase in home consumption which called for much larger importations of raw cane sugar secured on very cheap terms, operations in the home industry have developed on a greatly enlarged scale. Official figures of imports and deliveries with available stocks are as follow:—

U.K. returns Tons	Jan.-June, 1928	Jan.-June, 1929	Incr. or Decr.
Imports of raw sugar ..	876,900	1,018,229	+ 141,329
Imports of refined sugar ..	169,616	28,588	- 141,028
- Total imports ..	1,046,516	1,046,817	+ 301
Deliveries into home consumption	837,552	1,025,119	+ 187,567
Stocks in bond at end of period	312,300	159,250	- 153,050

Home consumption for June was particularly heavy at almost 200,000 tons, and the fact has to be noted that U.K. stocks as shown above at 159,250 tons are less than a month's consumption, so that the home statistical position is very healthy. Cane crop indications in the case of Cuba for next crop point to a curtailment, apart from restrictive measures, and the current Java crop may not even reach 3,000,000 tons, or much less than originally expected.

Olive Oil

By Ernest J. Parry, B.Sc., F.I.C., F.C.S.

THE manufacture of olive oil is carried out in general with such care and scientific treatment, and adulteration by the producers is comparatively so rare, that it is a great pity that attempts should be made to prejudice unjustly so important and so honest an industry. There is, unfortunately, an inherent tendency in some mentalities to erect a "test" into a method of detecting adulteration. When the so-called "ester theory" was originally advanced, it was in many quarters received as a definite means of valuing essential oils, just because it was a definite test. In many cases—especially, for example, when judging lavender oils grown in the same district—this is true. But no man with actual practical experience would value, say, a 30-per cent. Italian lavender oil and a 45-per cent. oil grown in certain French districts according to their ester values. Now in regard to olive oil, we are suddenly face to face with a new "test"—I refer to the fluorescences with the Wood light screen. This has been suggested as having some value in the analysis of olive oil. I wish to raise a warning note against this, and to say at once that, in my opinion, it has no value whatsoever, and for the following reasons:—

The sentence appearing in an article by MM. Baud and Courtois in *THE CHEMIST AND DRUGGIST* of March 15 (p. 325), referring to so-called refined olive oil, is of considerable interest. It reads as follows:—"It was pure olive oil, but refined, and it could be added to the first quality table oil without showing any trace of its presence in the mixture." The *ipse dixit* of Mr. C. E. Sage in an article in this journal (May 18, p. 609), which reads as follows, is also interesting:—"The words *and refined* in the Pharmacopœia text can only refer to rendering the oil free from water and solid particles: and even if it could be extended to include a process for reducing the amount of free fatty acids, the types of oil amenable to such treatment are not always suitable for pharmaceutical use, and for edible purposes the amount of refining needed gives a result which is undesirable." With the quoted remarks of MM. Baud and Courtois I cordially agree. With those of Mr. Sage I equally cordially disagree in respect to every relevant word. The British Pharmacopœia—in spite of Mr. Sage's personal interpretation of the words "and refined"—includes the following fatty oils in which the words "pressure" or "expression" are used, but without the words "and refined." Indeed, in no other case than olive oil are the words "and refined" used.

Almond oil	= Expressed.
Arachis oil	= Expressed.
Chaulmoogra oil	= Expressed.
Croton oil	= Expressed.
Linseed oil	= Expressed.
Cod-liver oil	= Expressed (followed by a refining process).
Olive oil	= Expressed and refined.
Castor oil	= Expressed.
Sesame oil	= Expressed.
Cacao butter	= Expressed.

So we are asked to believe that the words "and refined" mean nothing at all, except to remove water and suspended matter in olive oils. Does Mr. Sage suggest that this is *not* to be done in the case of the B.P. oils which are described only as "expressed" if they should contain suspended matter, etc? It is, of course, quite obvious that in the case of cod-liver oil and olive oil special refinement is allowed or even expected. The compilers of the British Pharmacopœia were, I venture to suggest, obviously in possession of the knowledge, which most of us share, that the fermentation processes in the pulpy fruit of the olive are so much more intense and rapid than in the case of comparatively dry seeds that huge quantities of olive oil containing over 3 per cent. of fatty acids are of necessity, and not by choice, expressed from the fruit. And this has been true, not merely for the past twenty or thirty years, but always. In the preparation of lemon oil, large quantities of water and suspended matter are found mixed with the oil, but the British Pharmacopœia describes the oil as obtained by expression, without men-

tioning refining. Before proceeding I would call attention to the really low grade oils with *very* high fatty acids—however produced. Surely every olive oil expert knows—or ought to know—that these do not pay to refine, and are not refined, but are used in their crude form for such purposes as soapmaking. The loss in refining such oils is far too heavy to make it commercially payable.

Now in every large factory where edible oils are prepared for use, it is a daily occurrence to refine them by the extraction of free fatty acids, and such refined oils are the pure, edible oil of their name. The compilers of the British Pharmacopœia were, no doubt, aware of this, and that no living person had ever seriously suggested that such refined oils were anything but the pure edible oils of their name; and were also aware that the same conditions existed in regard to the edible and pharmaceutical qualities of olive oil. Expressed olive oil—I hardly think the words used by Mr. Sage—"No intelligent reading of that definition [i.e. the B.P. definition] would allow the words *ripe fruit* to include rotten fruit or fermented press marc," need be taken too seriously—very frequently, contains more fatty acids than is desirable in the product to be used for edible or pharmaceutical purposes. Hence the scientific producer refines his oil by that proper and justifiable process used in any country in the world able to use it, of deacidifying the oil by extracting the bulk of the fatty acids by caustic alkali. And here I reiterate my agreement with the conclusion of MM. Baud and Courtois; "It was pure olive oil, but refined, and it could be added to the first-quality table oil without showing any trace of its presence in the mixture." Pure edible and pharmaceutical olive oils have, for very many years, been produced (a) on a small scale by expression only, (b) on a larger scale by refining the expressed oils which contain a little too much free acid. Both products are in the end identical, being produced by different methods. They are not only identical but, as MM. Baud and Courtois say, mixtures of the two could not be detected. I would now draw attention to the "lamp test" mentioned above. I am at present of opinion, subject to reconsideration, when a much larger range of samples has been examined:—

- (1) That the test is not sufficiently discriminating as between samples obtained by different processes.
- (2) That, in any event, the test can easily be vitiated by a trivial treatment of the oils.
- (3) That, in any event, it is valueless as dealing with refined oils.

It is not known to what substance the fluorescence is due, when it is found. For reasons which I do not propose to discuss at present, I think that where the test is positive, it is due to the hydrolysis of a trace of some substance in the oil, which may be brought about by steam—but can also be brought about by an excess of fatty acids in very low-grade oils. But assuming the test to be a positive one, all it does in regard to the simply expressed and the refined oils is to tell us, or suggest to us, that a given oil is or contains refined oil. But as the information so obtained is of no value—because it is of no importance from either a commercial or a scientific point of view if the oil has been refined—do not let us make ourselves "slaves of the lamp," which, if it can tell us anything about the matter, merely informs us whether the oil is in the one or the other category of oils "expressed without refinement," or "expressed and refined." I am not in the present article dealing with the lower-grade "extracted" oils, which I propose to deal with on a future occasion. I believe I am right in saying that more than one official laboratory in the olive oil producing countries has tried the lamp test and abandoned it. My own view is that the use of this test in regard to olive oil is mischievous and valueless.

Of 21,538 weights, measures and instruments inspected at Burnley during last year 18,538 were found correct.

The Ministry of Health has issued to local authorities a memorandum on the steps possible to be taken in view of a prospective shortage of potable water.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts

Local Reports

ENGLAND AND WALES

Bolton.—A summary of statistics for 1928 shows that £38,144 was expended through the practitioners' fund and £12,386 through the chemists' fund. During the year 375,607 prescriptions were issued to 87,684 insured persons, the cost of ingredients being £6,158, and dispensing fees £7,031. The total average cost per prescription was 8.4d., and the prescription frequency per insured person 4.3d.

N.-E. Midlands.—The following is a summary of minimum data statistics relating to the prescriptions of the combined areas of the N.-E. Midland Prescription Bureau covering the years 1918-28 inclusive, taken from the annual report for the year ended December 31, 1928:—

Year	No. of prescriptions	Cost of ingredients			Dispensing fees			Average cost per person
		£	s.	d.	£	s.	d.	
1918	2,007,239	30,133	12	2	27,660	17	2	20.8
1920	1,957,083	35,694	3	1	40,439	15	9	24.5
1922	2,222,676	28,988	16	10	45,575	17	8	23.0
1924	2,915,339	41,930	14	6	54,829	7	5	29.1
1926	3,398,881	52,021	17	2	62,882	12	9	32.5
1927	3,713,598	55,858	8	10	68,321	8	9	34.3
1928	3,585,842	54,132	12	3	65,342	1	9	32.5

The Bureau is in charge of the areas of Barnsley, Derby, Derbyshire, Grimsby, Halifax, Huddersfield, Lincoln, Lindsey, Nottingham, Nottinghamshire, Rotherham, and Sheffield.

South-West Lancashire and Cheshire.—The report of the Joint Prescriptions Committee for the year 1928 shows that the total number of prescriptions handled was 3,702,005, at a cost of £131,848 11s. 4d. The average ingredient cost was 4.16d., and the dispensing fee 4.39d. The cost per insured person was 37.64d. per annum, and the frequency 4.4. During the year 232 articles ordered by various doctors were disallowed, these being mainly surgical appliances and proprietary foods.

West Bromwich.—At a recent meeting of the Insurance Committee it was reported that during the quarter ended December 31, 1928, 38,177 prescriptions were dispensed at a cost of £1,279 11s. 4d., the average cost per insured person being 9.9d. and the frequency 1.23. Thirty persons received 67 prescriptions for insulin, serums and vaccines, costing £24 19s. 9d.

SCOTLAND

Edinburgh.—A report by Mr. J. G. P. Stevenson, clerk and treasurer, was submitted at a meeting of the Committee, on May 23. The Committee's medical service, provided by 193 doctors attending 163,695 patients, costs £74,000 a year. In 1924 there were only 148 doctors on the list. The limit for single-handed practice is 2,500. There are twenty partnerships. As regards remuneration, 64 per cent. of the doctors receive under £500 per annum, and 36 per cent. receive above that figure. The average is £330. There has been only one substantiated complaint of lack of proper medical attention during the five years. The cost of prescribing in the area has risen during the five years from £9,730 to £14,366 a year, exclusive of the cost of insulin. The increased cost can only be attributed to the greater advantage which insured persons are taking of medical benefit. In all, ten complaints connected with the medical service were heard during the five years. In two cases of irregular certification the doctors were respectively censured and fined. A fine was also imposed in a case of failure to visit. The Committee's pharmaceutical service comprises 152 chemists, with 188 shops, dispensing about 245,000 prescriptions annually at a cost of £15,700. In 1924 there were 122 chemists on the Committee's list, and 147 shops. Only one trivial complaint against a chemist had to be dealt with during the five years.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, July 18

THE holiday season, aided by the spell of fine weather, is making its influence felt on the produce markets, and there is little of interest to report. A continued large amount of speculative business is being done in sugar at further advances in the terminal market, while Cuban terms for shipment were raised to about 9s. per cwt. Rubber was erratic and lower on balance after being better. Among crude drugs business has been done in cascara sagrada at rather higher prices on c.i.f. terms; hydrastis is also firmer. Fine reboiled dragon's blood is scarce and wanted. Chamomiles and squills have eased in value. Maltese cumin seed is rather firmer, while Morocco coriander seed for shipment is cheaper from second-hand sellers. TN shellac is about 5s. per cwt. higher on the spot. In pharmaceutical chemicals there are no decided changes in prices, with the exception of a firmer tone in cream of tartar, which is now being quoted net. Aspirin holds at previous prices, but, as is usual at this period of the year, the demand has fallen off. Business in the industrial chemicals group is fairly satisfactory, the chief alteration in values being a substantial decline in formic acid; ammonium chloride and oxalic acid are slightly firmer; potash chlorate is a trifle weaker. Among the coal-tar products, both aniline oil and salt show a slight advance. Carbolie acid crystals are in brisk demand. Methyl alcohol is unsettled. Among the so-called vegetable oils, further advances are recorded in acid oils, while palm, coconut, and cotton are firmer; palm kernel is higher; castor and wood are quiet. With the strike troubles in the Argentine continuing and crop reports still reported unfavourable owing to dry weather, linseed oil rose sharply and a serious squeeze developed in spot and near positions, but the tone was the turn easier on Wednesday. Other oilseeds, including copra, have also attracted much attention at rising prices, while a lively Continental demand ensued and much stiffer rates were quoted by shippers, especially from Java. American turpentine oil has lost ground since the opening of this week on a slackening demand.

Higher	Firmer	Easier	Lower
Acid oils	Ammon. chlor.	Chamomiles	Coriander seed
Aniline oil and salt	Cassia oil	Methyl alcohol	(Morocco)
Linseed oil	Coconut oil	Potash chlorate	Formic acid
Palm kernel oil	Cotton oil	Squill	Rubber
Pitch	Cumin seed		
Shellac	Hydrastis		
Sugar	Naphthalene		
	Oxalic acid		
	Palm oil		

A drug auction will be held next Thursday, July 25.

Crude Drugs, etc.

AGAR AGAR is firm at 4s. 1½d. per lb. for Kobe No. 1 on the spot, and to arrive 3s. 9½d. c.i.f. is quoted. Yokohama is 3s. 10d. spot and 3s. 7½d. c.i.f.

ALOES.—Sales of Curaçao, in cases, have been made at the higher price of 107s. 6d. per cwt. c.i.f. for t.g. Spot stocks remain extremely limited, with an absence of fine liver, 135s. to 140s. being wanted for dull.

ANTIMONY shows no improvement. Chinese regulus is obtainable at £32 10s., if not less, and terms for shipment were shaded down at a little under £30 c.i.f. English refined, however, remained pegged at £48 to £52 10s., according to brand. There is no interest for Chinese crude and the nominal quotation on the spot is about £28 10s. Chinese white oxide on spot is £35 15s.

BALSAM CANADA is quoted at 5s. per lb. on the spot.

BUCHU.—The exports from the Union of South Africa during January amounted to 20,752 lb. (£786), against 12,446 lb. (£493) in January 1928.

CARDAMOMS.—At auction on July 11, 42 cases Indian offered and 13 sold at unaltered prices, including small round palish at 5s. 8d., small long palish at 3s. 2d., bold long splits at 5s. 7d., and medium splits at 3s. 1d. per lb.

CASCARA SAGRADA.—Business has been done in the new peel at rather over 56s. per cwt. c.i.f. terms; on the spot values range from 60s. to 65s. per cwt., according to age.

CEVADILLA SEED is quoted at 80s. per cwt. c.i.f.

CHAMOMILES.—Belgian new crop of first pickings are slightly easier, offering for August delivery at from 170s. to 190s. per cwt., and crop small brownish are quoted on the spot at from 130s. to 135s.

CLOVES are quiet, with Zanzibar offering at 1s. 4d. per lb. on the spot. To arrive, there are sellers of July-August shipment at 1s. 0d., August-September at 11d., and August-October at 10½d. per lb. c.i.f. Madagascar is quoted at 1s. 4d. on the spot, and October-December shipment is 10½d. c.i.f. The landings of Zanzibar in London during the week ending July 13 were 300 and the deliveries 149, leaving a stock of 1,679, against 6,656 last year and 11,199 bales in 1927. To date, landings of Zanzibar have been 4,724, against 11,980 in 1928, and the deliveries 5,432, against 13,254 in 1928.

DIGITALIS LEAVES.—New crop for forward shipment is quoted at from 97s. 6d. to 100s. per cwt. c.i.f.

DRAGON'S BLOOD.—There has recently been a fair inquiry and several orders remain unfulfilled on account of the scarcity of fine reboiled lump, which nominally sells at £28 per cwt. Good thin *recds.* are also very scarce.

ERGOR.—Good bold sound Russian is not too plentiful on the spot and 1s. 3d. per lb. is asked, with ordinary small offering at from 1s. to 1s. 1½d.; Spanish is neglected at 2s. 3d.

GENTIAN.—French whole for July-August delivery is offered at 32s. 6d. per cwt. c.i.f.

GINGER is quiet, with West African offering at 63s. per cwt. on the spot and at 65s. c.i.f. to arrive.

GUINEA GRAINS are scarce, with a limited quantity offering at 1s. 6d. per lb. on the spot.

GUM ACACIA remains firm but quiet. Natural Kordofan sorts on spot is 102s. 6d. and cleaned 105s.; to arrive, 94s. and 97s. 6d. c.i.f. is quoted respectively. Bleached on the spot is 140s. Talha is nominal on the spot, supplies being very limited, while on c.i.f. terms 48s. c.i.f. is quoted.

The stock in London on June 30 was 3,395, against 7,283 in 1928, 8,348 in 1927, 7,735 in 1926, and 9,396 in 1925; landings to date have been 10,531 and the deliveries to date 12,325 packages.

HYDRASTIS is slightly firmer, spot holders now asking 14s. 3d. per lb., as the price in U.S. has advanced 10 cents.

IPECACUANHA is quiet at 13s. per lb. for Matto Grosso, 12s. for Minas, and 12s. 6d. for Cartagena; 36 bales Matto Grosso have arrived.

LIME JUICE is in rather more demand, West Indian offering at from 4s. 3d. to 5s. per gallon.

MENTHOL is easier at 18s. 9d. per lb. on the spot for Kobayashi-Suzuki on the spot, and for July-September shipment 17s. c.i.f. is quoted.

MERCURY is entirely unaffected by the continuation of paltry imports, which are exceeded by re-exports. Demand from consumers is confined to small lots, due to lack of confidence in the maintenance of the high prices, which on the spot range from £22 2s. 6d. to £22 5s. per bottle, less the usual discount. There is no change in the attitude of the Italian and Spanish mines. The New York price remains at about \$122, duty paid. There have been one or two inquiries from China or Japan, but business is slow in that direction. U.K. imports for June were 54 bottles, making a total for the six months of 1,153 bottles, comparing with 8,986 bottles for the same period last year. Re-exports for the six months were 3,105 bottles, or well in excess of last year.

ORRIS.—Morocco is very scarce, with an offer for August delivery at 77s. per cwt. c.i.f.

PEPPER has been quiet and easier forward. Fair black Singapore is 1s. 4½d. per lb. on the spot, and May-July shipment 1s. 3½d. c.i.f., Lampong is 1s. 4½d. spot. Sales include May-July shipment at 1s. 3½d. c.i.f., and October-December at 1s. 2d. c.i.f. Tellicherry is 1s. 4½d. spot and Alleppy 1s. 4½d. spot. White Muntok is 2s. 5½d. spot. Sales include May-July at 2s. 5½d. to 2s. 5½d. c.i.f., and August-October at 2s. 0½d. to 2s. 0½d. c.i.f.

PIMENTO is steady at 1s. 2½d. per lb. on the spot; for July-August shipment 12s. c.i.f. is quoted, and August-October shipment is 110s. c.i.f.

RUBBER is again easier and is ½d. per lb. lower on the week. During the past few days business has been much quieter and the October-December position, which a week previously was done up to 1s. 0½d. per lb., was done to-day at 1d. lower, viz., 11½d. per lb. The spot demand has also been quieter, with slightly heavier arrivals from the East.

Last week arrivals totalled 2,128 tons, whilst deliveries were 1,463 tons, showing an increase in the stocks of 665 tons. The London stock now stands at 30,661 tons, against 35,925 tons at the corresponding period last year. Quotations (Wednesday, 5 p.m.): No. 1 standard ribbed smoked sheet, spot and July, 11d.; August-September, 11½d.; October-December, 11½d.; January-March, 11½d. per lb.

SAFROL is quoted at 2s. 3d. per lb. on the spot.

SANDARAC.—Morocco is quoted at 275s. per cwt. c.i.f. to arrive.

SEEDS.—Although the London market remains quiet, the prices for Morocco seeds are very much higher. **ANISE.**—Spanish is 67s. 6d. and Russian 28s. 6d. per cwt. on the spot. **CANARY.**—Mazagan on the spot is 23s. per cwt., and for August-September shipment 22s. 6d. c.i.f. is quoted. Saffi remains at 23s. per cwt. spot. For August-September shipment the price is firm at 21s. 6d. c.i.f. **CUMIN.**—Maltese is a little firmer at 57s. 6d. per cwt. on the spot. Morocco has advanced to 56s. per cwt. spot, and for July-August shipment the price is now 56s. c.i.f. **CORIANDER** has now become quiet, with offers for July-August shipment at 11s. to 11s. 6d. c.i.f. This market has been spoiled by second-hand sellers, who have been offering at 9s. 9d. c.i.f. for the same shipment. **FENUGREEK.**—There is nothing to be had on spot: August-September shipment is firm at 16s. 6d. c.i.f. **LINSEED** on the spot 24s., and for July-August shipment the price has moved to 19s. 6d. c.i.f. **FENNEL** is quiet at 67s. 6d. per cwt. spot and 60s. c.i.f. for prompt shipment. **MUSTARD** is now 23s. to 32s. 6d. per cwt. spot, according to quality.

SHELLAC.—The spot price of usual standard TN orange has advanced 5s. per cwt. to 205s., fine orange is 215s. to 270s., pure button 232s. 6d., and AC cakey 205s. To arrive, TN for June-July shipment has been sold at 187s. 6d. to 190s. 6d. c.i.f. For delivery sales include TN for August delivery at 193s. to 202s. to 197s.; October, 202s. to 205s. to 201s., December at 202s. to 206s. to 203s.

SQUILL is slightly easier, fair white offering at 28s. per cwt. and old crop at 24s. on the spot.

STROPHANTHUS continues firm, and genuine 100 per cent. Kombé is selling at from 6s. to 6s. 3d. per lb. according to quantity; ordinary f.a.q. Kombé has also sold more freely at from 2s. 3d. to 2s. 6d. per lb.

WAX (VEGETABLE).—Japanese is firm at 82s. 6d. per cwt. on the spot, and at 74s. 6d. c.i.f. for July-September shipment. Carnauba is quiet. Fatty grey is 112s. 6d. per cwt. on the spot and 106s. c.i.f. Chalky is nominal at 114s. and 106s. c.i.f. Prime yellow is 170s. spot and 150s. c.i.f. Mediana is 155s. spot and 140s. c.i.f.

Essential Oils

THE advance in sandalwood oil having been confirmed, the new scale of prices is given below. Star anise is still scarce on spot and prices are maintained. Peppermint is very firm and prices are inclined to go higher. This is inexplicable, for, as far as it is known on the American side, the crop prospect is for one of normal size, with a fairly good carry-over.

ANISE (STAR) is very firm and spot supplies are difficult to obtain. Leads in cases are quoted at 3s. 1d., tins 3s., though some spot sales of leads in cases have been made at 3s. per lb., and there are a few tins available at 2s. 10½d. and drums at 2s. 8d. To arrive, tins and drums are quoted at 2s. 6½d. c.i.f., and cases of leads at 2s. 9½d. to 2s. 10d. c.i.f.

BAY continues unchanged at 8s. per lb.

BERGAMOT is unchanged at 16s. 9d. per lb. spot and 16s. 3d. to 16s. 6d. c.i.f.

CASSIA shows a firmer tone at 4s. 11d. per lb. spot and 4s. 2d. to 4s. 3d. c.i.f.

CEDARWOOD is firm and prices quoted are spot drums 1s. 4d. per lb. and tins, in cases, 1s. 5½d.

CITRONELLA.—Java citronella is quoted on the spot at 2s. 6d. per lb. and is in moderate demand. Ceylon oil is unchanged at 2s. to 2s. 1d.

GERANIUM.—Bourbon is quiet at last week's spot price of 20s., c.i.f. 19s. 9d. Algerian is quoted 21s. 6d. per lb. spot.

LEMON continues firm at 15s. 9d. c.i.f. and 16s. to 16s. 6d. on the spot for good hand-pressed oil. Lesser-known brands are offered at 14s. 6d. c.i.f.

PATCHOULI is unchanged at 20s. for shipment.

PEPPERMINT.—American natural oil is firm and is quoted 13s. 3d. to 13s. 6d. c.i.f. Redistilled oil has advanced sharply to spot 15s. per lb. and 14s. 6d. c.i.f. Some reports suggest that heavy rains have damaged the new crop and that holders on the other side are not anxious to sell their present stocks. Other reports state that the crop prospect is normal, with a fairly good carry-over. H.G.H. is quoted 18s. 6d. c.i.f. and 18s. 9d. on the spot. Japanese demethylated is quoted at 6s. 4½d. per lb. for Kobayashi-Suzuki

and at 6s. 3d. for outside brands on the spot; to arrive, July-September is quoted at 6s. 1½d. per lb. c.i.f.

SANDALWOOD.—The recent advance in price foreshadowed in previous reports has been confirmed and the following scale is now quoted by the official agents of the Mysore Government: 29s. per lb. for single-case lots, 28s. for 15-case lots, 27s. 6d. for 30 cases, 27s. for 60 cases, 26s. 6d. for 100 cases.

SASSAFRAS is still quoted to come forward at 3s. 6d. to 3s. 8d. per lb. c.i.f. Spot price is about 4s. 3d.

PEARMINT is quoted on the spot at 18s. per lb. and 17s. 3d. c.i.f.

WORMSEED (CHENOPODIUM) is very firm at 8s. 6d. c.i.f. and 9s. 3d. on the spot.

The following arrivals have taken place from the countries indicated during the period June 26 to July 2 (inclusive): Anise (Fr.), 4 pkgs.; apricot (U.S.), 5 dm.; camphor (U.S.) 2 dm., (Jap.) 14 dm., 3 cs.; cassia (Ch.), 1 dm., 30 cs.; cedarwood (Fr.), 1 dm.; citronella (Fr.) 2 cs., (Cey.) 4 dm.; fennel (Sp.), 2 cs.; grape fruit (U.S.), 1 cs.; lavender (Sp.) 11 cs., (Fr.) 6 cs.; lemon (It.) 197 cs., (Ger.) 5 cs.; lemon-grass (U.S.), 3 dm.; linaloe (Ger.), 4 dm.; orange (It.), 2 cs.; patchouli (Sey.), 6 cs.; peppermint (U.S.) 6 cs., (Jap.) 35 cs., (Fr.) 1 cs.; petitgrain (Neth.), 10 cs.; rosemary (Sp.), 11 cs.; sandalwood (Br. Ind.), 25 cs.; spearmint (U.S.), 6 cs.; undescribed (Neth.) 13 cs., (Fr.) 15 cs.

Pharmaceutical Chemicals, etc.

THERE is very little change to report, the most important alteration being a firmer tone in cream of tartar, which is now quoted at a net figure. Other items are all steady and business is fairly good all round.

ACETANILIDE is unchanged on a dull market: B.P. crystals and powder, 1s. 5d. to 1s. 6d. per lb., as to quantity.

AMIDOPYRIN is being well held on spot and business is fair: ten cwt., 10s. 7d.; two cwt., 10s. 11d.; small parcels, 11s. 1d. per lb. F.o.b. Continent: ten cwt., 10s. 6d.; five cwt., 10s. 8d. per lb.

ASPIRIN is a good market, with home makers' prices holding steady: quoted from 2s. 6d. to 2s. 8d. per lb., as to quantity, delivered in U.K.

BARBITONE.—There is nothing to report; spot supplies are limited and in firm hands at about 6s. 5d. to 6s. 9d. per lb., but there is very little inquiry about. No offers from the Continent.

BENZALDEHYDE (.05) remains dull, with spot at about 1s. 10d. for quantities and up to 2s. per lb. for small lots.

BENZOIC ACID (B.P.) is bright at full rates: quantities, ex works, 2s. 1d.; spot parcels, 2s. 2d. to 2s. 3d. per lb.

BISMUTH SALTS continue at the recently reduced rates: carbonate, 8s. 9d.; subnitrate, 7s. 6d. per lb., in minimum cwt. lots; 3d. more for smaller lots.

BROMIDES continue in restricted demand, with prices just about maintained. Dealers quote: ammonium, 1s. 10½d. to 1s. 11d.; potassium, B.P. crystals, 1s. 7½d. to 1s. 7¾d.; granular, 1s. 6¾d. to 1s. 7¼d.; sodium, B.P., 1s. 9½d. to 1s. 10d. per lb., for quantities, in cases. British makers' list prices are unchanged: ammonium, 1s. 11½d.; potassium, B.P. crystals, 1s. 8¼d.; granular, 1s. 7¾d.; sodium, B.P., 1s. 10½d. per lb., in cwt. lots.

CALCIUM LACTATE continues steady but quieter: quoted from 1s. 2½d. to 1s. 3½d. per lb., as to quantity.

CHLORAL HYDRATE is slow of sale: duty-paid crystals, 3s. 1d. to 3s. 3d. per lb., as to quantity.

CITRIC ACID (B.P. crystals).—The spot market continues at about 2s. 0½d. to 2s. 1d. per lb., less 5 per cent., for fair quantities of foreign; business is not of any great account and there seems to be adequate supplies offering. Italian offers are holding up.

CREAM OF TARTAR is slightly firmer and business has been on a very fair scale: home makers and some dealers are reported to be now quoting at 96s. to 98s. per cwt. net; there may be isolated offers at less, but the market has a firmer tone.

EPSOM SALT is dull: commercial quality, in single bags, £4 5s.; B.P. quality, about £2 per ton more, ex store.

GUAIACOL CARBONATE is irregular, with offers on spot varying from 4s. 10d. to 5s. 3d. per lb.

HYDROQUINONE is bright, with prices steady at about 3s. 8d. for five cwt. up to 3s. 11d. per lb. for 14-lb. lots.

LACTIC ACID (B.P.).—There is no change in Convention prices: five tons, 1s. 6d., up to 1s. 10½d. per lb. for small lots, in carboys.

METHYL SALICYLATE (B.P.) seems to be well held as quoted at 1s. 6d. to 1s. 8d. per lb. on spot as to quantity.

METHYL SULPHONAL shows no further change; business is quiet: quoted from 12s. 7d. for two-cwt. lots up to 13s. 10d. per lb. for small parcels.

PARA-FORMALDEHYDE is quiet and unchanged: quantities of 100 per cent. powder, 1s. 8d., in kegs; small parcels, 1s. 9d. per lb.

PARALDEHYDE is slow of sale: quoted from 1s. 1d. to 1s. 4d. per lb., as to quantity and packing.

PHENACETIN.—There is no further change in the scale of prices; business continues on a fair scale: spot, from 3s. 2½d. for ten-cwt., up to 3s. 9d. for small parcels; f.o.b. Continent, about a penny per lb. less.

PHENAZONE is unchanged on a steady market, with business moderate: quoted from 5s. 9d. for ten cwt., up to 6s. 1d. per lb. for small parcels, spot; f.o.b. Continent, about a penny per lb. less.

PHENOLPHTHALEIN continues dull and unchanged: from 5s. 11d. to 6s. 1½d. per lb., as to quantity.

POTASSIUM PERMANGANATE (B.P.) is very steady, but business remains dull: quantities, in drums, 6d.; smaller lots, about 6½d. per lb.

POTASSIUM SULPHOGUAIACOLATE is unchanged on spot at about 4s. 3d. per lb.

SALICYLIC ACID (B.P.).—There is little demand, with home makers' prices controlling the position: quoted from 1s. 5d. to 1s. 7d. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE continues firm on spot at about 7s. 9d. to 8s. per lb.; market is quiet.

SODIUM SALICYLATE (B.P.).—This market is largely in the hands of home makers: quoted from 2s. 2d. per lb. for ten-cwt. lots up to 2s. 4d. for small parcels.

SULPHONAL is unchanged at the scale of prices given last week, ranging from 10s. 1d. for two-cwt. lots up to 11s. 2d. per lb. for small parcels of crystals; powder, 1½d. per lb. more.

TANNIC ACID.—B.P. *levis* is quiet: quantities, 2s. 10d.; small parcels, about 3s. per lb.

TARTARIC ACID (B.P. crystals).—Moderate business is reported, but the market has not moved during the week from former rates of 1s. 4d. to 1s. 4½d. per lb., less 5 per cent. for foreign. English is firm at 1s. 4½d.

THYMOL remains dull: synthetic fine white, 9s. 1d. to 9s. 3d. per lb.; ex ajowan seed, 11s. 3d. per lb.

VANILIN.—Competition continues with ex guaiacol leading the market at very keen prices: about cwt. lots are at 14s. 6d. per lb., with much less taken for big business: ex clove oil is steady at 17s. per lb., in cwt. lots.

Industrial Chemicals, etc.

London, July 17

A FAIRLY satisfactory volume of business is reported, with the market generally steady. One or two changes of importance are recorded, the chief being a big fall in formic acid; grey galvanising ammonium chloride is slightly dearer and oxalic acid is a trifle firmer. **ACETIC ACID** continues steady, with a moderate volume of business: 80 per cent. technical, £36 15s.; 80 per cent. pure, £37, in barrels; glacial, pharmaceutical, 99 to 100 per cent., £66, in glass demijohns; glacial, in barrels, £56 per ton, ex store. **ACETONE** is firm, with importers and home makers' prices level: B.G.S., £76 to £85 per ton, in drums, ex store. **AMMONIA (ANHYDROUS)** is steady and business in small lots is good: 99.95 per cent., in loaned cylinders, 10d. to 1s. per lb., carriage paid; slightly less for big contracts. **AMMONIUM CHLORIDE** is rather dearer, with dealers quoting grey galvanising at £21 10s. to £22 per ton, in casks, ex store; slightly less for contracts. **ARSENIC** is quiet and the current quotation for white Cornish 99 per cent. is £16 per ton f.o.r. mines. Mexican high-grade is on offer at £16 10s. c.i.f. Liverpool. **BARIUM CHLORIDE** is firm, with supplies still limited: 98 to 100 per cent. prime white crystals, £11 10s. per ton, in casks, ex store; f.o.b. Continent, £10 5s. for quantities. **CADMIUM** is firm and there is a steady inquiry from consumers, but there appears to be enough metal coming forward to meet all requirements. Prices are 4s. to 4s. 2d. per lb., according to quantity and delivery. **COPPER SULPHATE** is extremely dull, there being practically no inquiries for export, and the quotation of English makers for casks f.o.b., less 5 per cent., is nominally £37 10s., but offers are being made from the Continent by dealers down to £24 10s. f.o.b. Antwerp. U.K. exports for last month were 2,955 tons, against 6,027 tons for the same month last year, and the total for the six months amounts to 33,567 tons, against 36,360 tons for January-June 1928. **FORMALDEHYDE** is unsteady owing to keen competition, and quantities would be under the quoted rate of £35 per ton for 40 per cent. by volume, in casks, ex store. **FORMIC ACID.**—Home makers appear to be cutting the market fiercely and, in consequence, prices for 85 per cent. are down to about £41 to £42 per ton, in carboys, ex store. **MAGNESIUM.**—The market is very steady and home makers find a regular outlet on the basis of 3s. 3d. up to 3s. 9d. per lb. for small sticks and bars, and terms for ribbon were at 11s. to 14s., for wire at 7s. 6d. to 12s. 6d., and for powder at 4s. 6d. to 7s. 6d. **ISOPROPYL ALCOHOL** is steady, with a fair business passing; reliable material, 11s. to 12s. gallon, in drums, carriage paid. **LITHOPONE** is receiving some attention, with prices for 30 per cent. Continental red seal steady at £19 10s.

per ton, in casks, ex store; slightly less for contracts. OXALIC ACID is very steady, with the minimum price for large quantities at £30 per ton, ex wharf; spot, from 32s. 6d. per cwt., ex store. CAUSTIC POTASH.—Convention prices are unchanged; business quiet: 88 to 92 per cent. solid, less than one ton, £35 15s.; one to five tons, £32 5s.; five to fifteen tons, £31 15s., in drums, ex store; c.i.f., 30s. less in all cases. POTASSIUM CARBONATE remains dull, but prices are quite steady: 90 to 92 per cent., £24 7s. 6d. to £24 10s.; 96 to 98 per cent., £25 10s. per ton, in casks, ex store; slightly less for contracts. POTASSIUM CHLORATE is very slow and is slightly easier: quantities, about 2½d., ex wharf; spot, from 3d. per lb., ex store. POTASSIUM PERMANGANATE remains dull, but prices for commercial quality, in two-cwt. drums, are very steady at 5½d. to 5½d. per lb., ex store. POTASSIUM PRUSSIAN is steady, with a fair business moving; yellow, in quantities £63 10s. to £65 10s.; single casks, 7d.; small parcels, 7½d. per lb. ex store. LEAD PRODUCTS.—The Convention prices for red and white leads are unchanged: red, £37 10s. per ton, carriage paid for 5/10-cwt. lots, with rebates for larger quantities; white, dry, £37 to £42; ground in oil, £50 to £56 per ton, carriage paid in U.K. SELENIUM.—Prices are steadily held, with black powder, 99 per cent., delivered Liverpool, selling at 7s. 8d. to 7s. 9d. per lb. SODIUM ACETATE is firm, with supplies limited: spot, £21 10s. per ton, in casks, ex store; prices for forward delivery are at about the same figure. SODIUM HYPOSULPHITE is steady, with some business passing: pea crystals, in one-cwt. kegs, £15; commercial quality, £9 10s. per ton, in casks, ex store; British makers quote home consumers on contract, £15 per ton, carriage paid to buyer's station. SODIUM PRUSSIAN is steady and business has been better: quantities, 4½d. to 5d.; smaller lots, 5½d. to 5½d. per lb., ex store. SULPHUR is in moderate demand and prices are maintained, with American crude at £5 12s. 6d. to £5 17s. 6d., Sicilian flowers at £12 7s. 6d., refined ground at £11, and roll at £9 15s., all c.i.f. to arrive. ZINC OXIDE is unchanged by home makers: B.P., £45; white seal, £42; red seal, £41, delivered. COAL-TAR PRODUCTS, ETC.—Changes of importance are recorded this week. Pitch shows a considerable advance on quotation. Naphthalene has improved. Aniline oil and salt are dearer. Carbolic acid crystals are in good demand and the market is firm. Methyl alcohol is unsteady. ANILINE OIL is firmer at 8½d. per lb., packages extra, carriage paid. ANILINE SALT shows a slight advance at 8½d. per lb., packages extra, carriage paid. BETANARHTHOL is firm at 10d. per lb., carriage paid for quantities. CARBOLIC ACID (ICE CRYSTALS).—The brisk demand which we have reported for some weeks past is maintained, and the earliest position for any substantial quantities is now November-December. The price of 39° to 40° C. ice crystals remains unchanged at 6½d. per lb. basis for five-ton lots, in three-cwt. drums, delivered carriage paid U.K. CRESYLIC ACIDS.—The pale quality, 95 to 97 per cent., is in rather better demand, the reason being probably the warmer weather encouraging the use of disinfectant fluids and powders. The price remains unchanged at 2s. to 2s. 2d. per gallon, according to quantity, naked, at makers' works. Refined is firm, and there is no alteration in the price, which is based on 2s. 9d. per gallon for large quantities, naked, f.o.r. CREOSOTE OIL is unchanged, with the market continuing dull: ex works, 4½d. to 4½d.; f.o.b., 6½d. per gallon, in bulk quantities. NAPHTHALENE is brighter and prices show a slight advance: imported flakes and balls, £15 15s. to £16 per ton, in cases, ex wharf. METHYL ALCOHOL is in fair demand, with prices easy at about £45 per ton, in drums, ex store; home makers quote cheaper prices. PYRIDINE continues nominal at 3s. 9d. to 4s. 3d. per gallon f.o.b. TOLUOL continues in fair demand with the market steady: commercial 90's, 1s. 9d.; pure, 1s. 11d. per gallon at works. XYLOL is quiet, with prices unchanged: commercial, about 1s. 10d.; pure, about 2s. per gallon, ex works. PITCH shows a further advance, with the market quotation up to 42s. 6d. per ton f.o.b. East Coast.

Fixed Oils, etc.

A NUMBER of items continue firm and some further advances in prices are recorded. Acid oils are again dearer and palm, coconut, linseed and cotton oils are also firmer. ACID OILS continue firm, with a further advance in prices: coconut and/or palm kernel, 32s. 9d.; ground nut, 32s. 6d.; soya, 23s. 6d. spot. CASTOR remains quiet: pharmaceutical, about 49s.; first pressings, 44s.; second pressing, 41s. 6d. per cwt., in barrels, on the spot, in not less than one-ton lots. COCONUT is dearer and firm: deodorised, not quoted; Ceylon, 34s. 6d. c.i.f.; Cochin, 44s. c.i.f. COTTON is firm, with prices showing an advance: deodorised, 38s. 6d.; common edible, 36s. 6d.; soapmaking, 34s. 6d.; crude, 32s. 6d. spot. GROUND NUT continues steady: deodorised, spot, 43s. 6d.; crude Oriental, 36s. 6d. c.i.f. PALM KERNEL is dearer, closing dull: deodorised, 42s. 6d.; crude, 37s. 3d. spot. PALM.—Prices for

all grades show a considerable advance on the week, the market closing dull: Lagos, 36s.; softs, 35s. 6d.; mediums, 36s.; hards, 36s. 6d.; bleached, 38s. 6d. spot. RAPE is steady and level on the week: refined, 45s. 9d.; crude, 43s. 9d. spot. SOYA continues firm: deodorised, 37s. 3d.; crude, 33s. spot. LINSEED (raw, naked).—This market shows a good advance for all positions and closes generally firm: on spot, 37s.; July, 34s.; August, 33s. 9d.; September-December, 33s. 4½d. per cwt. Boiled oil, spot, 39s. TURPENTINE.—There has been little alteration, but the undertone was easier on Wednesday. Last week's deliveries here were 1,839 barrels, making a total since January 1 of 53,769 barrels, comparing with 59,124 barrels the same period last year. Stocks were returned at 10,982 barrels, and, including the landings and afloats, London visible makes up at 16,986 barrels, against 27,627 barrels for the same date last year. The London spot price closes at 43s. 9d., July 43s. 6d., and August-December at 43s. per cwt. RESIN.—The tone has been harder under the influence of reports from America of abnormally small stocks. C.i.f. quotations for prompt shipment were as follows: B/E 18s. 6d., F/M 18s. 7½d., N 19s. 1½d., W/G 19s. 7½d., and W/W 20s. 6d. French has also improved, with W/W held for 19s. 4½d. WOOD.—Hankow, in barrels, on spot is dull at 72s. per cwt.

LUBRICATING, MINERAL, BURNING OILS, ETC.—Conditions in this market show little change on the week. Business in most products continues on a limited scale, lubricating oils being the exception. BENZOL is active with the market firm: standard motor 90's, 1s. 8½d. to 1s. 3½d. per gallon, ex works, in tank wagons; ex London works, 2d. per gallon dearer. LUBRICATING OILS are active, with the market continuing firm. Spot: pales, £13 7s. 6d. to £33 10s.; reds, £11 10s. to £33; dark cylinders, £14 12s. 6d. to £39; filtered cylinders, £23 5s. to £42, as to quantity, per ton, less 2½ per cent.

English Herb Crops

W. J. Bush & Co., Ltd., write that they have recently made a survey of the prospects of the crops round Mitcham and other districts and find that as regards peppermint some of the crops may be considered fair, while others are certainly very bad indeed. The hard winter killed a number of runners in exposed places. The lavender and chamomile crops will also be very poor, and the acreage is very small.

Sudan Gum Acacia

FOXALL & Co., in their market report dated June 1 to 30, state that the arrivals in Kordofan stations (El Obeid, Nahud and El Odaiya only, all other stations having completely given out) amounted during June to 795 tons, about half of which was rain-damaged, against 856 tons last year—a shortage of 61 tons, or about 7 per cent. The June arrivals are the lowest recorded since 1923, during which season commenced the series of crops averaging 20,000 tons. It is noteworthy that arrivals during the month have been constantly decreasing from week to week, the arrivals of the last week being 140 tons, against 290 tons for the first week. The shortage in Kordofan and Tendelti this season to date against last season remains about 4,500 tons: with the shortage of inferior Hashab estimated at about 2,000 tons, the total shortage in Hashab gums against last season would amount to date to about 6,500 tons. The month's prices at El Obeid have been characterised by violent and almost daily fluctuations. From June 1 to June 6 prices gradually fell, the fall amounting to 4s. 9d. per cwt. From June 9, when the market reopened, to June 20 the turn the market took was, on the whole, upwards—with the exception of one or two falls on June 10 and 17, which changed to still wider rises on the following days—the total rise during that period equalling 12s. 9d. per cwt. Since then, gradual and almost daily falls to the extent of 6s. on the total have set in. The net increase during the month amounts, therefore, to 2s. per cwt. Demand has been greatly curtailed by the exceedingly high prices which have been ruling. On the other hand, arrivals are small and there is no real excess of supply against demand at the present time.

Talha.—The total increase in price during the month equaled 4s. per cwt.

Exports.—To the end of May exports of Hashab are down by 2,220 tons. Bleached exports are 20 tons less, whilst Talha is up 660 tons against the first five months of last year. The net difference on all qualities is about 1,580 tons less. The shortage in arrivals will show up to a greater extent in the export figures for the coming months. Last year as much as about 7,700 tons Hashab were shipped from June to November, the bulk of which was made up from stocks in the country (as will be seen from the fact that arrivals during that period were only 2,200 tons) whilst this year present arrivals are no more, but rather less, than those of last year, and there can be no doubt that stocks are almost non-existent in the country.

Correspondence

Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Stamped Proprietaries and Postages

SIR.—Are chemists sufficiently interested in patents (so-called) to agitate for a reduction of the stamp duty? When the question was broached a few months ago Sir Hilton Young said in Parliament that the makers of this class of goods made such huge profits that they could very well afford the impost, forgetting that it is the consumer who pays. The incidence of these duties is obviously unfair to the small buyer. The tax on the 6d. size works out at 33 per cent. and on the 1s. item 20 per cent. If, as happens to the enterprising trader, postage comes in, the lowest postal rate of 1½d. barely covers the cost. Thus, a 6d. line, plus stamp, plus postage, 1½d., amounts to 4½d. over the primary cost, equal to 75 per cent. for the small purchaser to pay. If the small article is in a glass container it cannot often be packed and posted for less than 3d., which makes the impost equal to the first cost—a big handicap, surely. Incidentally, an eight-ounce mixture (or its equivalent in proprietaries) may, if skilfully handled, be securely cased and sent for 6d., but in the hands of the ordinary packer has to be estimated for postage at 9d.

Yours, etc.,

POSTAL (8/7).

Easy Prescribing

SIR.—The prescription submitted by your correspondent "Hova Civitas" (*C. & D.*, July 6, p. 46) is an example of the type of prescribing which is becoming more and more frequent in these days, and, to my idea, shows a lamentable want of knowledge both of diagnosis and prescribing ability on the part of the prescriber. However, as such recommendations for proprietary medicines are presented to us daily under the guise of prescriptions we are compelled to deal with them, and there should be some recognised way of doing so. There is a choice of two methods—one the dispensing and the other the retail transaction. In the first the labels would be removed from the packages and replaced with the pharmacist's dispensing labels with the directions from the prescription, and in addition to the usual retail price a dispensing fee of 6d., being the fee quoted in the *C. & D.* Retail and Dispensing Price List for "uncompounded medicines of whatever nature" would be charged. In the case of ʒvi. being ordered when the nearest size available is ʒvii, there is no alternative but to charge the price for the original size, as the odd ʒij. would only be wasted, and therefore I should dispense the original bottle complete. The second course is the retail method, and should be pursued when the doctor gives instructions for the article to be handed over in the original packing; this is a retail sale pure and simple, and should be conducted as such—no copying or labelling is required, and therefore no dispensing fee charged. The directions in such a prescription are usually in English, and therefore legible to the customer, or they can be given verbally at the time of sale if required. Regarding the dose of Byno Hypophosphites, the directions on the original label state the dose to be from a dessertspoonful to a tablespoonful, so presumably it should be increased to that amount in the absence of any further instructions. In the latter case—that is to say, when the directions are not definitely given on the prescription—it is safe for the pharmacist to assume that the doctor has verbally instructed the patient.—Faithfully yours,

A PATENT DISPENSER (8/7).

SIR.—In the course of his observations on the problem introduced by "Hova Civitas" (*C. & D.*, July 6, p. 46), "Xrayser III" suggests that an exchange of views by your readers might lead to some community of action on this vexed question of the prescribing and dispensing of

proprietary preparations. But just as doctors differ in their methods—some ordering original packages with labels intact, others wishing labels removed, and still others giving no indication of their preference—and just as patients vary—some loving a spice of mystery and a little hocus pocus behind the scenes, while others are only too glad to pocket the stuff without any fuss or delay—so will pharmacists be differentiated; some, pathetically clinging to the fast-declining relics of professionalism, will waste valuable time copying these so-called prescriptions, re-labelling, and, perhaps, even repacking them, while the practical business man, realising that the profit on these specialities only averages about 25 per cent., will hand them over with as good grace but with as little expenditure of time and trouble as possible. There is pretty general agreement, I believe, that these goods must be supplied at face value without fee; but in view of the ever-increasing multiplicity of this class of merchandise, with practical certainty of dead stock, it behoves us all to agitate for a more adequate rate of profit; and if this present discussion leads to this desirable consummation, it will not have been initiated in vain.—Yours, etc.,

C. S. ASHTON.

Brighton.

Small Orders

SIR.—An incident bearing on the question whether a chemist is a trader or a professional man occurred to me this week. During a very slack period no fewer than five customers entered the pharmacy at the same time; this certainly looked like business, so I hastened to serve them. The first one required weighing (1d.); the second 2d. returned on an Insurance bottle; the third tartaric acid, 1d.; the fourth ¼lb. Glauber's salt, cut in this district to 1½d.; and the last Beecham's Pills, 1d. To anyone entering at the time it would assuredly have seemed that trade was flourishing, and yet the gross takings amounted to only 2½d., estimated gross profit 1d., time taken about five minutes—I have not troubled to work out what my overhead expenses would amount to during that time. There is very little of the professional status about this sort of thing, and I doubt whether there is any other kind of trader who would work for such amounts as these; yet in a working-class district one is compelled to cater for trade in this way or not to trade at all. To put it in another way, five minutes to make one penny works out at one shilling an hour; how many labourers would work for this amount?

Yours truly,

PENNY WORKER (2/7).

Vaccine Therapy

SIR.—The address of Mr. R. R. Bennett to the British Pharmaceutical Conference on "The Changing Foundations of *Materia Medica*" (*C. & D.*, July 6, p. 3) affords the retail chemist with little time to spare an opportunity of bringing his knowledge to date on the subject of modern treatment. But I am afraid that I cannot entirely endorse Mr. Bennett's approval of vaccine treatment; it may be valuable in the prevention of typhoid, tropical fevers, etc., but I have seen a good many cases of acne, catarrh and similar ailments treated with vaccines, and the results to my mind have not been at all satisfactory. The usual course seems to be from six to twelve injections. In those cases which I have been able to follow up I should say that at least half have derived no benefit at all, while in some cases the constitutional disturbance following the injection more than counteracted any benefit they might have gained. On the Continent, and especially in Italy, they make use of subcutaneous injections far more than we do, and one has to carry in stock ampoules of all kinds of drugs, apart from vaccines, which are administered in this way instead of *per os*. The effect of an injection three times a day on a nervous or dejected patient must be seen to be believed; and I have known cases where they worked themselves into a panic as the time came round because they dreaded it so. Under these circumstances, and in view of the empirical nature of the treatment at present, I should hesitate a long time before I consented to undergo myself either vaccine or drug injection.

Faithfully yours,

INJECTA (15/7).

Business After Closing Time

SIR.—It would interest many chemists, myself included, to know how other chemists deal with the problem of supplying goods after hours. When a pharmacist lives on the business premises, he is usually pleased to help patients who make urgent calls for medicines, even to cheerfully serving at 2 a.m. But the growing habit of ringing the bell on Sundays and holidays for films, tooth-paste, etc., is a nuisance that many a proprietor and manager would like to know the best way of dealing with. If you supply, it will advertise that "old so-and-so doesn't mind—ring his bell," and the disturbances get more frequent. If you refuse strangers, they are often connected with good customers, and the refusal creates bad feeling, and may even lead to words and the ruffling of one's temper. To be "out" may be a hardship to a genuine urgent case, and in many places is difficult to carry out where customers know your habits. One ring at the door after another is very worrying to a shopkeeper who works twelve hours a day and gives holiday and Sunday service as well.—Yours truly,

AFTER HOURS (9/7).

Errors in Dispensing

SIR.—Mr. Mallinson and "M. P. S." draw attention in your issue of July 13 (p. 73) to two matters that should be taken particular attention of by the General Medical Council, the dispensing errors made by chemists, which are practically none, and the errors made by medical men who do their own dispensing and have the power of life and death in their own hands. In the small town where I have my business there are three chemists and three doctors, all of whom do their own dispensing with no assistants. In the hospital there is a surgeon who does all the dispensing. The population of this town is 4,000. There is no check on the doctors' dispensing, and the result of such dispensing is that the only prescriptions we, chemists, get are N.H.I.

Yours, etc.,

SOLO (17/7).

Why not Repeal the Poisons and Pharmacy Act, Section 2?

SIR.—It is a matter of opinion whether or not the above-mentioned section is of any benefit to mankind in general. That it is an injustice and an obstacle to the registered chemist is more certain. Under this section of the Act a registered chemist may, etc., if, etc., and many of us know the trouble and risk attendant upon this "may" and "if." On the other hand, a wholesaler or manufacturer coldly drives through with the proverbial carriage and pair, or its modern equivalent. He sends a canvasser to collect orders from unknown gardeners, farmers country gentlemen and others—unknown, I mean, to the seller—or he advertises, and in return accepts orders by post. In both cases he cheerfully executes the orders—his only concern being whether the recipient is able to pay. I wish to state that in my opinion the section of the Act referred to is no protection.

Yours faithfully,

W. ARTHUR SENIOR.

Bourton-on-the-Water.

Press Conceptions of Pharmacy

SIR.—I have been reading some of the paragraphs in the daily papers relating to the recent Chemists' Exhibition, and must say that I am very disappointed with the way in which the reporters seem to have viewed it. Most of them seem to think that chemists exist solely to discover and put on the market exotic varieties of face powders and perfumes; one such notice deals with powders and refers to orange and ochre shades, which in ordinary business are, of course, the exception rather than the usual run of sales. Another one notes a new liquid powder which will not rub off; certainly this writer also includes reference to solid iodine and a cream, but these are not really the things we qualify for. One is compelled to ask if this is actually the way in which we strike the non-pharmacist who goes round the exhibition.—Yours, etc.,

OCHROLD (15/7).

Legal Queries

Castra (16/7).—The use of isopropyl alcohol in the manufacture of essences was dealt with editorially in our issue of January 19, 1929, p. 68.

Spero (28/86) was granted a fresh lease of a combined shop and residence in 1918. He was at that time paying a rent of £65 a year, and under the new lease the rent was increased to £100 during the first seven years and £120 for the last seven years of the term. "Spero" is responsible for all repairs except to the roof and drains. In view of the Increase of Rent Acts, was this increase of rent legal? [It would seem that the increase of rent was considerably greater than that permitted by the Acts, and that "Spero" may be entitled to recover the amount that he has paid during the past six months in excess of the rent that ought to have been charged. He should consult a solicitor.]

Beta (28/86) bought a house on mortgage, the Schedule A (property tax) assessment being £34 per annum gross. He has received notice that tax will be charged on this sum, less the statutory allowance for repairs, viz., one quarter of £34, £8 10s., making the net Schedule A assessment £25 10s. He asks whether it is in order for him to pay tax on this, and if there is income tax also payable on the capital sum paid as rental. [If the mortgage was raised with a building society the usual practice is for the borrower to ask for a certificate of the interest charged within the tax year for the purposes of claiming relief which the law provides in respect to mortgage interest when payments to the lender represents principal and interest, and no tax is deducted when the payment is made. This certificate is submitted to the local inspector of taxes, and the amount of the interest is deducted from the net Schedule A assessment and tax paid only on the balance. Beyond this "Beta" has no other income tax to pay on this property.]

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics

"Weariness, Fever and Fret"

With reference to my letter (*C. & D.*, July 13, p. 73) regarding a statement made by Dr. T. M. Dishington in his presidential address at the Homœopathic Congress, we have communicated with Dr. Dishington and have received a letter from him, correcting his statement. He writes:—"The passage in my presidential address to the British Homœopathic Congress and American delegation that 'Deaths are common from overdose or from errors in dispensing,' ought to read 'Deaths are common from overdose or errors in prescribing.' I might now add to that, that, but for the technical slang of the dispenser, many more disasters in drug prescribing would have been recorded."—*G. A. Mallinson*, Secretary, Retail Pharmacists' Union.

Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," July 15, 1879

Profession or Trade

This question has at length been settled by no less an authority than Lord Deas, who, while on the Northern (Scotch) Circuit lately, after receiving the evidence of a well-known pharmaceutical chemist (Mr. William Duncan, of Grantown) in a homicide case, complimented the witness on the very distinct and intelligent character of his evidence "as a professional man." The following is taken from the "Inverness Courier":—

Witness: Thank you, my Lord. I may mention I am not a professional man, only the village chemist.

Lord Deas: You are a chemist?

Witness: Yes, my Lord.

Lord Deas: Well, then, you are a professional man.

Witness: Thank you, I am very glad to hear it, my Lord.

Lord Deas: Oh, yes; always stand up for the rights of your order.



[Commenced C. & D., July 5, 1924]

Rhubarb is one of the most ancient of known drugs. Its medicinal use is mentioned in a Chinese herbal called Pen-Lung, which is attributed to the Emperor Shen-nung who reigned about 2700 B.C., and was the father of Chinese agriculture and medicine. In this book rhubarb is named Ta huang, i.e., the great yellow. The name rhubarb is derived from the Greek word rheon or rha, used in the first century A.D. by Dioscorides for the root of the rhubarb now known as *Rheum Rhaponticum*, the word barbarum being used to distinguish the Chinese rhubarb from the Pontic. But the name rhubarb or rhabarbarum does not appear to have been used in Europe until the sixth century A.D., indicating that the Chinese rhubarb was probably not used in Europe until that date. But in the eleventh century a distinction was made by Arabian writers, who stated that the Chinese, or barbarian, rhubarb was preferable to the Pontic. In the twelfth century it was known to Arabian geographers that the Chinese rhubarb was collected in the province of Tangut, and distributed thence per caravan *via* the Caspian to Moscow, and to Persia and thence to Asia Minor and Syria, reaching Aleppo, Tripoli, Alexandria and Smyrna. It was also sent from the only port in China (then Canton) open to foreign shipping, thence by way of Singapore to India and Europe. That sent by the first route was recognised on the Continent as rhabarbarum, that by the Persian route as Turkey rhubarb, and that by India as East Indian, Canton or China rhubarb. In 1640, the East Indian rhubarb was already the common root in England. The Turkey rhubarb soon became replaced by that sent direct to Russia, but the Russian rhubarb root still retained the name of Turkey rhubarb in this country, but not on the Continent. It is interesting to note that the expense and risk of the enormous land transport across almost the whole of Asia, caused rhubarb to be one of the most costly drugs. In 1497 it was valued at Alexandria at twelve times the price of benzoin. In 1542 it was worth in France ten times as much as cinnamon and four times that of saffron. In 1614, at Schweinfurt, a local price list showed radix rhabarbari to be six times as dear as myrrh. In 1657 an English trade list quotes opium at 6s. per lb., scammony 12s., and rhubarb 16s. per lb. When in 1653 China permitted Russia to trade on her actual frontier the route to Russia *via* the Caspian and Black Seas, was diverted further north and a Customs house was established by the Russians at Kiachta, where the rhubarb caravans were subjected to special control, and about the year 1704 the Russians monopolised the trade and stringent regulations were issued with the object of removing all inferior and spurious pieces, and to improve the quality by trimming, paring and boring. Caravans fitted out by the Russian Crown alone carried the drug to Moscow, and only 40,000 lb. once a year was dispatched. In 1860 the Russians compelled the Chinese to burn 60,000 lb. of rhubarb on the ground that it was too small. These severe methods led to the opening of a number of ports in Northern China, and the trade at Kiachta dwindled so that in 1860 the Russian or "Crown" rhubarb was no longer procurable, and is now only to be found in museums. Every piece of the root was examined, and the holes when the string still remained in the root were bored through or the solid root half through, with holes the

size of the top of the little finger in suspicious pieces to see that the root was not decayed inside, so that every piece was practically guaranteed of good quality. A specimen of this "Crown" rhubarb from Russia used by Pereira in his lectures, and another piece brought back from St. Petersburg as a curiosity by the late T. Greenish may still be seen in the museum of the Pharmaceutical Society in Bloomsbury Square, London, together with one of the Russian labels that were attached to the chests in which it was imported. An illustration of this is given in Pereira's "Materia Medica," vol II, pt. 1 (1850), p. 1,349, together with probably the fullest account of the commercial kinds and grades of rhubarb in use at that date. (See also Catalogue Museum Pharmaceutical Society, 1878, pp. 106-108.) The regions in China where rhubarb root is produced cover a very large area. They comprise the four Northern Provinces of Chihli, Shansi, Shensi, Honan, and the immense North-Western Province of Kansu. The producing field also extends across the desert of Gobi to the frontiers of Tibet and the Province of Tsinghai, including the great salt lake of Koko-nor, and the districts of Tangut, Sifan and Turfan, and the mountains of Western Szechwan. The best is said to come from the region north-west of Sungpan in Szechwan. Some of the most important centres of the trade are Siningfu and Chungchi in Kansu and Kwanhsien in Szechwan. It grows principally on the pasturages of the high plateaux, especially where there have been encampments. The rhubarb from the N.W. Provinces of China finds its way by river, rail, pack-horse and coolie portage to Chungking, Tientsin and Hankow, the principal points of export to Shanghai and abroad. It usually undergoes further sorting and trimming on the journey. The root from the N.W. Provinces collected near Lake Koko-nor is sold to merchants from Shensi and Canton, and carried over the mountains to the Han river, and thus reaches Shanghai. The best, or Shensi, rhubarb is collected exclusively from plants growing wild on the high alps of Western Szechwan, especially in the Bayankara range between the sources of the rivers Ta-lung-kiang and Min-kiang. The important centres for it are Siningfu in the Province of Kansu and Kwan-hsien in Szechwan and Sanzuan in Shensi. The true plant is said not to succeed well under cultivation in the fields. It was in Tangut in the thirteenth century that the celebrated traveller Marco Polo saw the root collected and prepared for distribution through the world by caravan across the Central Asian desert, and it was in the same region in 1872 that Przewalski saw it collected, and sent home seeds and plants to Russia. The product of the above-mentioned provinces is generally referred to as *Rheum palmatum*, Linn. But there is a large area in Central China where rhubarb is also collected, chiefly in the mountains separating Tibet from the Chinese province of Szechwan and extending eastwards to Hupeh. The species collected in Central China is generally referred to as *Rheum officinale*, Bail. The rootstocks are dug up when six to seven years old, just before the flowering season (April or May), and again after the seed has ripened (in September), peeled, cut in lengths, measuring four to five inches, bored through the middle, placed on strings and hung up to dry. There is considerable diversity of form in the China rhubarb, arising from the various operations of paring, slicing and trimming, but these forms are not found in the same package, the drug being usually sorted into what are commonly known as "rounds" and "flats." Considerable importance is attached to drying. Sun-dried roots are worth double the price of those dried by artificial heat, which the Chinese believe to injure the quality. In this country Chinese rhubarb is usually classed under five commercial grades—Shensi, wild Shensi, Canton, flat High-dried, and common round High-dried, according to the quality and character of the root, but in wholesale drug lists, as a rule, these names are not used, but all are classed under *Rhei rhizoma*, E.I., according to price, whether in pieces, shavings or powder. It is also noticeable that the trimmed elect and trimmed super E.I. are much higher in price than the elect root. The finest and hardest pieces are generally used for small trimmed pieces, which customers prefer. These hard pieces are sometimes found

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in the large dried drug, but they are more empyreumatic to the taste than the Shensi kind. The kinds of rhubarb known by the above names may be recognised as follows: all occur in the form of rounds, i.e., transverse sections of the rootstock and flats or pieces of rootstock cut in half longitudinally. Best Shensi rhubarb is characterised by its firm, compact nature, bright yellow or orange coat with distinct whitish reticulations, and a marbled or nutmeg fracture of a bright pink colour. The pieces which have a greyish or dark brown fracture are considered of inferior quality. The odour is agreeable and free from marked empyreuma, the taste slightly bitter. When chewed it is found to be distinctly gritty from the very numerous raphides present. An excellent illustration of this variety of rhubarb will be found in Goebel and Kunze *Waar.* (Pt. II, taf. 1, figs. 2b and 3b). Canton rhubarb is distinguished from the Shensi by its more or less uniformly granular fracture, not marbled, its less compact and more fibrous nature, and less marked whitish reticulations and more distinctly empyreumatic and disagreeable odour. It may be probably regarded as the produce of a different variety of the species that yields Shensi rhubarb and less carefully prepared. High dried rhubarb has a duller and rougher coat, the rounds being often much shrunken, with dark patches often visible on the outer surface. The flats show distinct paring, and are often so hard as to break when struck with a hammer, and are usually of better quality than the rounds. The odour and taste of these varieties indicate that the Shensi rhubarb has been dried in the absence of a smoky atmosphere by the method of stringing the pieces or ends between trees in the shade, or by drying on heated stone tables in the open air. The empyreumatic odour would probably be caused by drying them on hurdles in smoky huts, carried to an excess of drying in the case of high-dried rhubarb. The exact botanical species which yield the rhubarb of China is still open to question. Several different species of rhubarb have been brought back from China and cultivated in Europe, but only two of them furnish a root resembling that of true or Shensi rhubarb. Although there is no question that the plants and seeds have been brought from places in China where the collection and drying of the root actually takes place, some light has, however, recently been thrown on this apparent anomaly, for it has been proved by the experiments of Tschirch and others that the *Rheum palmatum*, var. *Tangutium*, is only one of several varieties to which the seeds of *R. palmatum* give rise, and that *R. palmatum*, L., is evidently a variable species and readily produces hybrids and sports. (See "Quarterly Journ. of Pharmacy," pharmacology, vol. II, 1929, pp. 134-136.) The same variable character has been shown to belong to *R. officinale*, Baill. by horticulturists who have used it for decorative purposes, several new varieties having been obtained from it. (See "Descr. of Plant in *Comptes Rendus*," 1892, p. 592, pl. x.) Presumably, therefore, the Chinese are aware of this property and utilise their knowledge to select the best varieties to yield a satisfactory root. The nearest solution, therefore, that can be arrived at is that Chinese rhubarb is the product of selected and cultivated forms of the two species *R. palmatum*, Linn., *R. officinale*, Baillon. There is, however, some reason to believe that soil and climate may cause differences in the medicinal activity of the root as well as in its growth and tissue. Hitherto the severe Government penalties attending the revealing of the secrets of the rhubarb industry to foreigners has doubtless helped to prevent the cultivation of the best varieties of the rhubarb plant outside China. Rhubarb has a laxative action, which is followed by an astringent one. Its chief constituent is gallic acid, and it also contains a small quantity of tannin. The purgative ingredient is, according to Tutin and Clewer, 1911, an amorphous non-glucosidic resinous mixture. It also contains rhein, emodin, aloë-emodin, emodin-monomethylether and chrysophanic acid, in the free state, and also in the form of glucosides. The amount of calcium oxalate varies considerably, averaging about 7.3 per cent. (Flückiger).

Good Chinese rhubarb yields from 7 to 13 per cent. B.P. (not more than 15). It occurs in very large cluster-crystals and is the cause of the gritty taste of the drug.

Ricinoleic Acid.—This fatty acid, in the form of a glyceride, occurs in castor oil. The unpurified fatty acids of this oil, obtained in the usual manner, have a specific gravity of about 0.950, and solidify at from -6° to -10° . To obtain the acid in a pure state it is necessary to prepare the barium salts of the crude acid and recrystallise these from alcohol. Pure ricinoleic acid melts at $4-5^{\circ}$ and is miscible with alcohol and ether in all proportions. On distillation the acid yields products which are of the highest importance in the manufacture of artificial perfume materials. Amongst the products of distillation are undecylinic aldehyde and oleanthnic aldehyde. The septin-carbonate group of synthetic perfumes, and several of the higher fatty aldehydes, depend on ricinoleic acid as their starting point. Ricinoleic acid has the formula $C_{22}H_{40}O_2$. It absorbs two atoms of iodine, but does not absorb hydrogen. It is slightly optically active, as would be indicated by its structural formula, which contains an asymmetric carbon atom.

Rideal-Walker Test is a method of estimating the germicidal powers of disinfectants and antiseptics perfected by J. A. Walker and Dr. S. Rideal. The principle of the test is the estimation of the extent of dilution of the given disinfectant required to kill a culture in the same time as a standard solution of carbolic acid under exactly similar conditions. The method of carrying out the test is as follows:—To 5 c.c. of the disinfectant, diluted to a known strength in sterilised distilled water, add five drops of a twenty-four hours' blood heat culture in broth of the organism to be killed. Sub-cultures should be taken every two-and-a-half minutes up to fifteen minutes. These must be incubated at 37° C. for forty-eight hours. Each medication and taking of sub-cultures will take about half a minute, consequently four different dilutions may be tested with the control solution of carbolic acid at the same time, with the same culture. The following table gives an example of the carrying out of such a test using a *Bacillus typhosus*, twenty-four hour broth culture at 37° C. keeping the room temperature $15-18^{\circ}$ C.

Disinfectant	Dilution	Culture exposed to disinfectant minutes					
		2½	5	7½	10	12½	15
Carbolic acid	1: 100	pos.	pos.	neg.	neg.	neg.	neg.
" A "	1: 1,900	neg.	neg.	neg.	neg.	neg.	neg.
" A "	1: 1,950	pos.	neg.	neg.	neg.	neg.	neg.
" A "	1: 2,000	pos.	pos.	neg.	neg.	neg.	neg.
" A "	1: 2,500	pos.	pos.	pos.	neg.	neg.	neg.

In this case the dilution of disinfectant "A" of 1:2000 strength has the same germicidal power as the standard 1:100 carbolic acid solution as shown by the time required to kill the culture of *B. typhosus*. The Rideal-Walker coefficient of "A" is therefore the comparison of these two strengths, viz. $\frac{2000}{100} = 20.0$. The following details are necessary for the satisfactory working of the test. The carbolic acid should be carefully standardised with bromine. If a stock solution is used it should be one of about five per cent., and should be verified by analysts before diluting to the 1:1000 or other strength required. The nutrient broth must be uniform in constitution, as differences in the broth affect the vigour of the culture to a very great extent. A suitable broth recommended by the authors of the test is:—Lemco 20 grams, peptone (Wittes) 20 grams, sodium chloride 10 grams, water 1 litre. Absolute sterility, not only of all apparatus used, but also of distilled water used in making the various preparations is necessary.

Ringine the Changes.—See Changes, etc.

Rob.—See Rob.

Roche Alum.—See Alum

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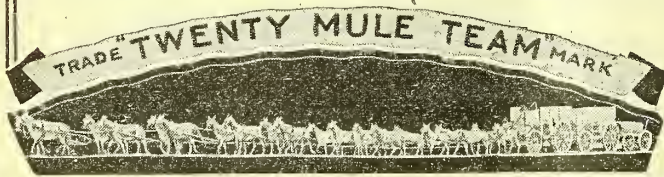
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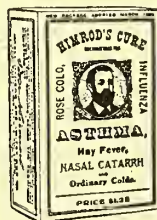
BRONCHIAL ASTHMA

Asthmatic Hay Fever

Common Colds

Nasal Catarrh

Bronchitis



Will be quickly helped by the use of this time-tried remedy. Burn half a teaspoonful, inhale the fumes and the distress vanishes.

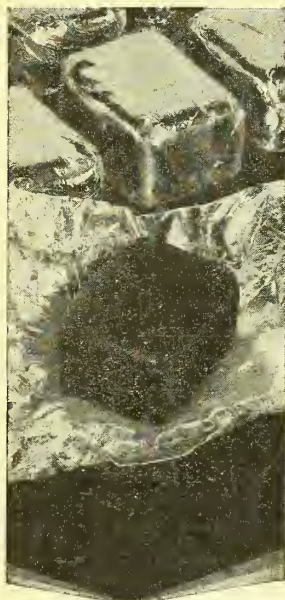
ON THE MARKET FOR OVER 50 YEARS

“Himrod's Cure is a well known product, very useful in many cases.”

—W. J. Hadley, M. D., formerly lecturer at London Hospital.

May be had from wholesale distributors throughout the world

Himrod Manufacturing Company, Mfrs.
463/5 Eleventh Street, Hoboken, NEW JERSEY, U.S.A.



M - A - B

MULFORD ACIDOPHILUS BACILLUS BLOCKS

Providing acidophilus in concentrated form, in a medium of agar jelly, chocolate coated.

Effective—Palatable—Convenient—M. A. B. insure the co-operation of the patient during treatment while providing the mass inoculation of B. Acidophilus as recommended by authorities.

Published reports confirm the value of M. A. B. in establishing the desired predominance of B. Acidophilus in the intestines.

In boxes of 12 blocks. Dosage—3 to 4 blocks daily and for children in proportion.



H. K. MULFORD COMPANY LTD.

Regent Arcade House

252 Regent Street, London, W. I.

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McCLURE, YOUNG & Co. Ltd.
ECLIPSE WORKS - LONDON, S.W.13

Sole Agents for PISTANY Radio-Active Mud and Manufacturers of

DISINFECTANTS
OF ALL KINDS.

COAL TAR FLUIDS AND POWDERS
all strengths

CARBOLIC AND CRESYLIC ACIDS

LYSOL, PINE FLUID

HYPOCHLORITES

HYDROGEN PEROXIDE

TINCT. IODI. MIT., E.P.

CINEMA SPRAY SOLUTIONS

VAPOSAN

WEED KILLERS, &c.

Send your enquiries for

LOCAL CONTRACTS and this
SEASON'S REQUIREMENTS

to the

SPECIALISTS

McCLURE, YOUNG & Co. Ltd.

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"ONZO" OINTMENT

RECOMMENDED FOR

Chilblains, Corns, Sprains, Septic Wounds and Sores,
Dry or Wet Eczema, Varicose Ulcers, Burns, Boils, &c.

"ONZO" 2/3 Jars.	"ONZO" 1/3 Tins.	
1 Dozen 21/- per doz.	12/- per doz.	Cash
6 Dozen 18/10 "	10/10 "	Discount
12 Dozen 18/4½ "	10/6 "	2½% 1 month.

TRADE ENQUIRIES TO—

ONZO Ltd., 188 St. Vincent Street, GLASGOW.

WINDOW DISPLAY TERMS

7½d.

"CLEAR CORN"
CORN REMOVER
& PAIN KILLER

Per Doz. 4s. 6d. Bonus of 3 with every 3 doz. minimum.

CARRIAGE PAID

Display Material, Showcard, Twin Tier Outer Containing 12.

Order direct or through your Wholesaler.

Kof-Oh Co., Ltd., EVERTON, LIVERPOOL.



Two more London Chemists testify to remarkable increasing demand for 'ASPRO'



MARBLE ARCH PHARMACY
Proprietors: HYGIENIC STORES, LTD.
ENGLISH & FOREIGN CHEMISTS.
24 EDGWARE ROAD, W.2
Telephone: PADDINGTON 7699.

27th April, 1929.

Dear Sirs,—Permit me to take this opportunity of telling you how satisfied I am with 'ASPRO' sales. I recommend it extensively to all my customers, as indeed do all my four assistants and we have yet to find a dissatisfied customer, or a case in which the desired relief from pain has not been obtained.

Our close proximity to Hyde Park has brought us experience that has taught us that 'ASPRO' is very well recommended for headaches caused by sun-glare, and for the normal day-trippers headache. In fact we confidently recommend 'ASPRO' in all those cases where the use of aspirin is indicated, and particularly in those cases where ordinary aspirin is not well tolerated.

Faithfully yours,
THE MARBLE ARCH PHARMACY.

SALES DOUBLED with Current Window Display

T. M. BLACK, DISPENSING CHEMIST,
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To 'ASPRO' Limited, Trading Estate, SLOUGH, Bucks.

Dear Sirs,—Just a line to let you know how pleased I am with the 'ASPRO' window show you sent me. The result since putting it in has been very marked—my sales have been more than doubled and the increase has been most marked in the 25's size.

There is no doubt in my mind that the policy of the chemist is to devote his window display to lines which are heavily advertised as yours is. It keeps a constant stream of purchasers coming into the shop which can be turned to good account for other lines stocked by us chemists.

Wishing you every success,
Yours faithfully,
THOMAS M. BLACK.

'Aspro' Bonus System for Chemists gives Extra 17% Profit

Send for special window display and buy 'ASPRO' on exclusive bonus terms for chemists. Order through your Wholesaler. The bonus works out as follows:—

BONUS ON 10's.

- One Gross Order - Bonus 1 dozen packets.
- Half Gross Order - Bonus ½ dozen packets.
- Half gross 10's is minimum order accepted for Bonus purposes.

BONUS ON 25's.

- One Gross Order - Bonus 2 dozen packets.
- Half Gross Order - Bonus 1 dozen packets.
- Quarter Gross Order - Bonus ½ dozen packets.
- Quarter gross is minimum quantity.

NO BONUS ON 5's OR 60's.

CONDITIONS.—The conditions are, that upon receipt of each bonus the chemist undertakes to show 'ASPRO' Display matter in his shop window for 14 days, and to sell at advertised prices. Acceptance of bonus is considered as acceptance of these conditions. To qualify for the bonus it is not necessary for the chemist to buy both sizes at the same time but single lots may be ordered, viz., 6 doz. 10's or 3 doz. 25's.

SOLD IN 3d., 6d., 1/3 and 2/6 sizes with corresponding Wholesale prices of 2/3, 4/6, 11/6 and 21/- per dozen subject to 2½% discount 30 days.

'ASPRO' consists of the purest Acetyl Salicylic Acid that has ever been known to Medical Science and its claims are based on its superiority.



Agents: GOLLIN & Co. Pty. Ltd. ('ASPRO' Dept.), Slough, Bucks.

No proprietary right is claimed in the method of manufacture or the formula.

'Phone: SLOUGH 608.



SALE or RETURN

A SPECIAL OFFER TO CHEMISTS ONLY

If you have not previously stocked "Menthells"—here is a special introductory offer for you: 3 doz. tins carriage paid on sale or return. You pay for what you have sold at the end of November. Try this offer—display on your counter in the attractive outer and see how soon they sell.

MENTHELLS

have a national reputation—constantly increasing sales during the last 25 years prove their merit. Retail 4½d. Cost 2/9 dozen. A bonus of 1 dozen on all orders for gross lots.
Send a p.c. now to

BLYTON, ASTLEY & CO., Ltd.
Eagle Laboratories, Lower Broughton, Manchester

'AKUR' PRESCRIPTIONS CO. LTD.
15 FEATHERSTONE BGS.
HOLBORN, LONDON, W.C.1
OHANCERY 7764

BEG TO ANNOUNCE THE CURRENT PRICES OF their SEVERAL SPECIALITIES

50	On small orders	1 Doz. BONUS	62 1/2
PER CENT.	All welcome	Every Gross	PER CENT.

Akur Profit Brand

! WELL ADVERTISED!

Trade Price 1/2 **"SUMMER STICK"** Retail 1/9

A HOLIDAY NECESSITY WHICH EVERYBODY WANTS
Non-greasy, anti-insect, anti-sting, frozen can-de-cologoe. Refreshing. Pleasant

4d. **"INSECT STICK"** 6d. 1/-
Citronella. Cedri. Menthol. Popular. Effective. Handy. Safe. Low price sells rapidly

10d. **"MULTIPURPOSE COMPLEXION STICK"** 1/3 2/6
1/8

Ladies' Handy Holiday Companion. Prevents Freckles
Non-greasy protection against exposure to "weather." Soothing.
Basis for powder. Whitens

4d. **"IODOFORM INHALANT"** 6d. 1/2
Powerful. Less "catching" than usual. Advertised especially for Asthma, Hay Fever. Pocket "dropper" vial at 6d. Sells easily and rapidly. A paying hoo

1/8 **"TONIC PILLS"** 2/6 4/6
3/-
Quinina. Aphrodisiaca. Phosphorous. A prescription! Always in demand.
A change from "quacks."

3d. 7d. **"SULPHUR SPRING PILLS"** 4½d. 10½d. 1/6
Sold as "Brimstone and Treacle in a new form." Popular laxative for women and children.

Attractively Packed in Self-Selling Display Boxes
Leave a box, which does not take up all your valuable space, on the counter and watch it

ATTRACT ATTENTION AND MORE SALES!!
Your AKUR BRAND Line!



Saint-Raphael

Tonic, Restorative,
Digestive Wine.

Known throughout the World,
and prescribed in all cases of
**ANÆMIA, DEBILITY, and
CONVALESCENCE, to Young
Women, Children and the Aged.**

DOSE: One wine-glass after
the two principal meals.

Recommended by—
PROF. BOUCHARDAT, Professor of
Hygiene, Paris Faculty of Medicine.
DR. MACNAUGHTON JONES, London,
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"For more than thirty years St. Raphaël Wine has been
exclusively prescribed, with success, in the Paris hospitals
as a pure tonic, by eminent physicians, such as Magendie
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"St. Raphaël Wine is most precious in all cases where
it is necessary to give tone to the system, without effort
or shock."—DR. C. DES BARRES.

Cie du VIN SAINT RAPHAEL, Valence, Drome,
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**To be obtained from all
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MASON'S EXTRACT OF HERBS

MASON'S WINE ESSENCES

(SUMMER FLAVOURS)

CLARK'S LIVER SALT

FOR SUMMER WINDOW
DISPLAY ALLOWANCES
AND TERMS - APPLY

NEWBALL & MASON, LTD.

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Good! It's Mason's

COLLOSOL ZINC CREAM

This distinctive and extensively prescribed product not only possesses exceptional curative properties in actual skin troubles, but forms a very valuable and delightful toilet accessory.



Its unique value in SUNBURN, INSECT BITES, and the Various Minor SKIN AILMENTS, and for general use, make it an exceptional line for personal recommendation.

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Telegrams : "Collosols, Westcent, London."

Export Distributing Agents : AYRTON, SAUNDERS & CO., LTD., LIVERPOOL.

KEEP NONN TO THE FORE!



Especially the 1/3 size.

Nonn Sales are increasing everywhere and Chemists are co-operating with our advertising. Are you? - If not display the 1/3 size in one of these attractive containers. It is worth the Small Space it occupies for Nonn is a big success and sells readily.

NONN FOR NERVES
RESTORES SELF-CONFIDENCE

Prices and Particulars :

NONN IS SUPPLIED IN RED CARTONS FOR MEN AND IN BLUE CARTONS FOR WOMEN

P.A.T.A. 1/3 per carton, Wholesale 11/3 per dozen
P.A.T.A. 3/- per carton, Wholesale 27/- per dozen

Sole Distributors : Proprietors of Nonn Ltd.
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More and more everyday!

Snowfire Cream is fast becoming the popular favourite. Chemists all over the country are sending in more and more orders every day. Women in their thousands are finding in this fragrant non-greasy cream a real skin beautifier. Recommend Snowfire and secure quick sales and a rapid turnover.

Snowfire CREAM



In handsons Opal jars and neat Aluminium Containers retailing at 1/3 and 3d, respectively.

F. W. Hampshire & Co. (1927) Ltd.
Sunnydale Works, DERBY.

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A NEW PACKING
FOR
CALVERT'S
Carbolic Toilet Soap



ONE DOZEN 6d. TABLETS IN
NEAT COUNTER DISPLAY BOX

List price **4/5** per box.

As the usual 3-tablet boxes (list price 13/6 per dozen boxes) will still be available, customers are requested to certify in their orders which form of packing they desire.

F. C. CALVERT & CO., Ltd., MANCHESTER

CELLOPHANE

The ideal transparent wrapping absolutely harmless, air and grease proof, as used by all the leading Perfumers, Soap Manufacturers, etc., etc., for wrapping Soaps, Drugs, Tablets, Bath Crystals, Perfumery, Surgical Dressings, Sponges, Puffs, Soothers, Tooth Brushes and all Articles of Toilet.

Cellophane can be had in sheets, all sizes and colours; also in the shape of **Bags, Discs, Envelopes** printed or not, allowing the contents to be seen by transparency.

Cellophane wrapped goods **look better—keep better—sell better.**

Cellophane **protects, beautifies,** and adds the quality touch.

Prices, Samples and Particulars from

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7, 8 and 9 Bird Street, LONDON, W.1

Also 305-7 PRODUCE EXCHANGE, MANCHESTER.
35 MILLER STREET, GLASGOW.

NIGROIDS for the Throat and Voice

Registered Trade Mark.

Sold in tins 4½d. and 1/6 each.

WHOLESALE TERMS ON APPLICATION

Sole Makers: **FERRIS & CO. LIMITED, BRISTOL**

For SHOPFITTINGS, SHOWCASES or SHOPFRONTS

Send enquiries to: **PERCY R. E. JOSEPHS** 68 Old Street, 1/5 Tilney Court,
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Plans, Sketches and Estimates or Illustrated Catalogue *Post Free on Application.*

**Liberal
Trade Terms
Powerful
Advertising**

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THE
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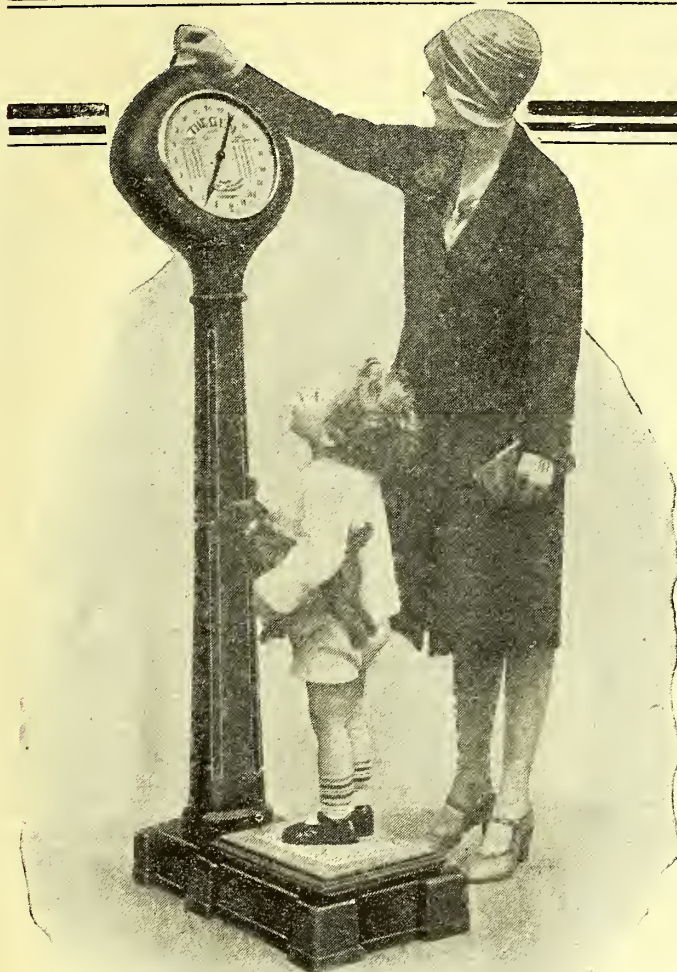
for

HEADACHE, NEURALGIA, RHEUMATISM, NEURITIS, Etc.

Is now being vigorously advertised throughout the country.
POWDER AND TABLETS. RETAIL AT 1/3 and 3/-

:: Sole Proprietors ::

CEPHOS LTD. BLACKBURN



LET this Gem Automatic Weighing Machine make money for you. Note the beautiful line of the Gem Machine which will enhance the appearance of any chemist's or druggist's shop. The finish is in first-class cellulose in three standard colours: mahogany (grained), light blue and royal blue. The Gem is a genuine money-maker and will work for you without any attention. Price £27 Nett Cash, or terms may be arranged. Can you afford to be without this revenue maker? Ask our nearest agent to demonstrate the Gem.

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AUTOMATIC WEIGHING
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**ROBINSON'S of
CHESTERFIELD**
for
**CARDBOARD
BOXES**
ROUND • OVAL • SQUARE • FOLDING
ROBINSON & SONS LTD.
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SALES-MAKING CARTONS

Goods well packed are half sold, and easier selling means more sales. Your own preparations attractively packed will sell considerably better.

Send for samples and prices.

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Manufacturers of ROUND, OVAL, SQUARE AND FOLDING
CARDBOARD BOXES,
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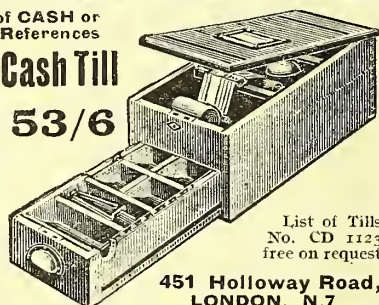
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Check action, warn-
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Buy direct from the
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Guaranteed for
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WELL ADVERTISED to the GENERAL PUBLIC.

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*Two thirds
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Bath Rusks

Unsolicited testimonials daily for Carr's famous Bath Rusks which are ideal for babies and young children. Scores of letters from grateful mothers. Recommended everywhere.

Made only by
CARR'S of Carlisle
The Oldest House in the Trade

A HARLEY STREET
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WITH CONFIDENCE THE
IMPROVED HUMANISED
AND MODERNISED
SUNSHINE GLAXO

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"Dear Sirs,

"Some time ago, you were kind enough to send me, at my request, a sample of humanised (Sunshine) Glaxo. I have now given it some months' trial in the case of a delicate baby, and I should like to express my satisfaction in the highest possible terms.

"The child has never looked back since she began taking it. It has gained weight at a normal rate, and she developed into a perfectly healthy and very active child. I have been impressed by the fact that it has never required an aperient and has practically never, if ever, vomited during the months it has been taking this food."

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Humanised and modernised with added vitamin D

Three reasons why Sunshine Glaxo should appeal to every chemist.

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3. Sunshine glaxo is a fully humanised milk food containing added Vitamin D, advocated by the Medical and Nursing Professions to-day, for infants and for expectant and nursing mothers.

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TINS DATED 12 MONTHS
AHEAD—NOT SUPPLIED
TO INFANT WELFARE
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Standard of the World for

**Pills : Tablets : Capsules : Suppositories
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A complete line of

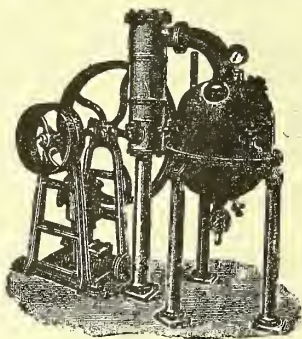
**TUBE FILLERS, CLOSERS AND CLIP FASTENERS
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Write for Complete New Catalogue

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**STILLS, VACUUM STILLS, VACUUM PANS.
EVAPORATING PANS.
AUTOCLAVES AND DIGESTORS.
SPECIAL APPARATUS AND PLANT
FOR MANUFACTURING CHEMISTS.**

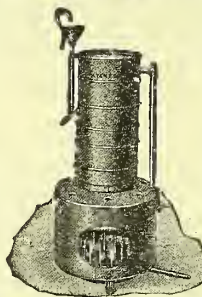
SOLE MAKERS of BENNETT'S PATENT 'IDEAL'
ANNULAR FILM CONDENSERS.
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BENNETT, SONS & SHEARS, LTD.

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DISTILLED WATER



Brown's Stills are perfectly automatic. Can be run night and day without attention. Patented in U.K. and Continental Countries.

Extraordinarily efficient and economical. Made for gas, steam, oil or coke fire heating.

Full particulars and prices free on application

BROWN & SON,

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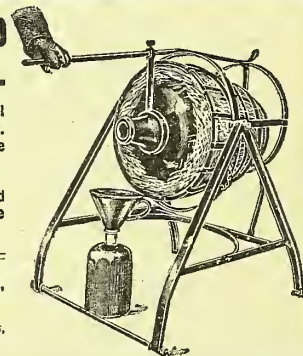
CARBOY STAND AND TILTER.

For drawing off small quantities of acids, etc. from Carboys, with ease and safety.

The Carboy can be tipped to any position with one hand.

R. & H. LEIGH & SONS, LIMITED.

Carboy Hopper Manufacturers,
BOLTON.



KARL HÖLL A.-G.
Langenfeld, near Cologne, Germany
EXPORT TO ENGLAND SINCE 1884.

Manufacturers of:—
TUBES of all kinds,
plain and decorated.
SPRINKLER TOPS of
all sizes and styles.



IMPORTANT: When asking for quotations send samples already used and state quantities required. Goods will arrive in 3-4 days with direct steamer from Cologne.

The OXYGEN VALVE
Pinson DOES NOT LEAK

For full particulars and prices apply to
The Manchester Machine & Instrument Mfg. Co., Ltd.
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Halve the Labour of Taking Stock.
Price of Complete Pad, 2/6 post free.

The Chemist & Druggist, Publications Dept.,
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Having just completed the extension of our new premises we are desirous of extending our D. & P. Business.

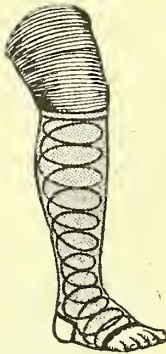
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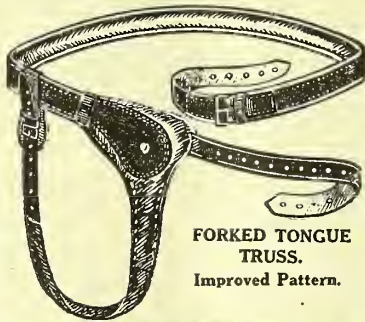


**CREPE
VELPEAU
BANDAGES**

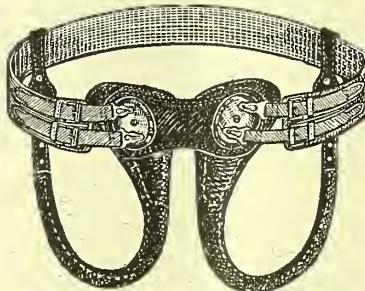
WE ARE SOLE AGENTS.

TRUSSES Spring and Elastic.

ANY PATTERN.



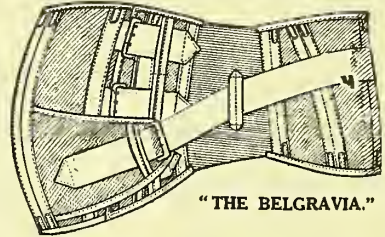
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TRUSS.
Improved Pattern.



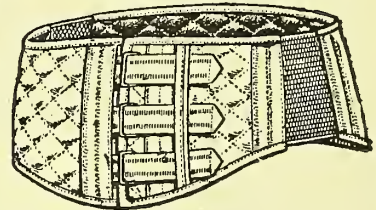
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ALL QUALITIES.

**ABDOMINAL BELTS
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WOVEN ELASTIC CORSETS
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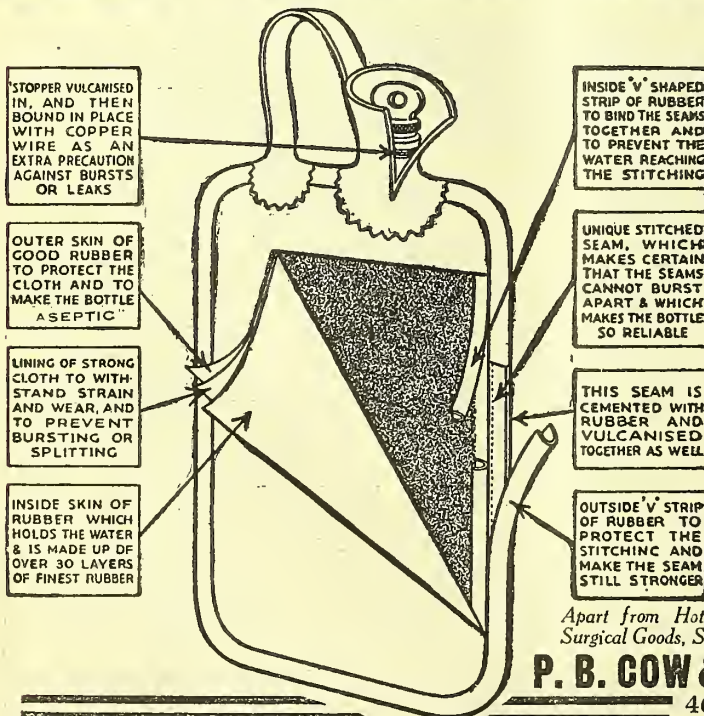


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MANUFACTURED ON THE PREMISES AT CROWN ROAD WORKS

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:: MANUFACTURERS ::

It cannot burst!



"STOPPER VULCANISED IN, AND THEN BOUND IN PLACE WITH COPPER WIRE AS AN EXTRA PRECAUTION AGAINST BURSTS OR LEAKS"

OUTER SKIN OF GOOD RUBBER TO PROTECT THE CLOTH AND TO MAKE THE BOTTLE ASEPTIC"

LINING OF STRONG CLOTH TO WITHSTAND STRAIN AND WEAR, AND TO PREVENT BURSTING OR SPLITTING

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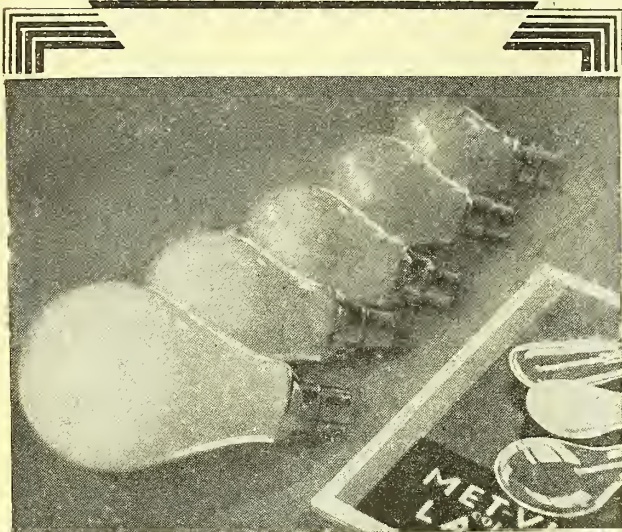
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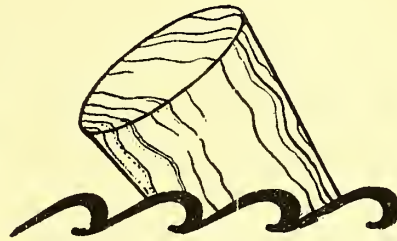
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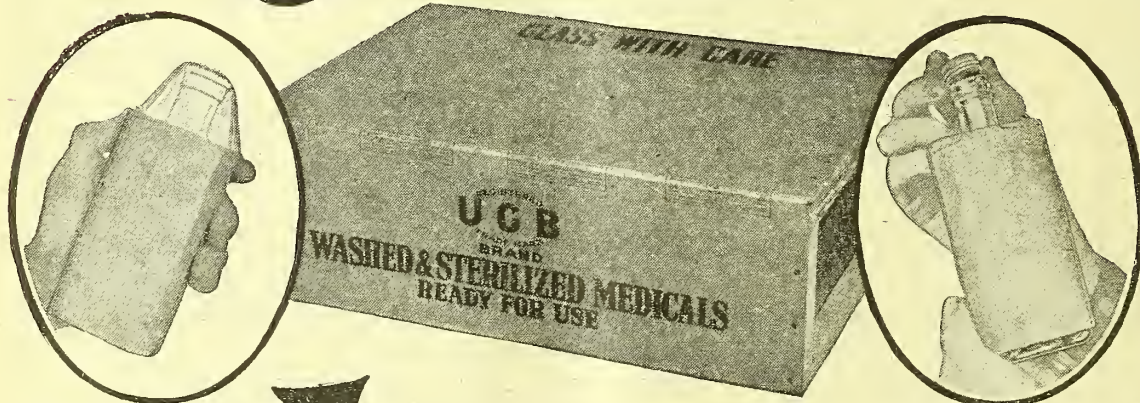
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42 CANNON ST.
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JULY 20, 1929

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 - 4.—**SCOTLAND**.—Old-established Cash Business in City main road, on lease at low rental; returns £1,700 p.a. Double-fronted shop, beautifully fitted throughout in mahogany; splendid scope for optics. Recommended. (196)
 - 5.—**LONDON, E.**—Old-established Retail and Dispensing Business; returns £5,600 p.a.; good living accommodation; freehold for sale, or would consider granting a lease; strongly recommended. Further particulars on application. (188)
 - 6.—**LONDON, N.**—Established Chemist's Business; premises, which include convenient living accommodation, held on lease, 15 years to run; rental £50 p.a.; stock approx. £285; price asked £550, all at. Further particulars on application. (180)
 - 7.—**LONDON, N.W.**—Retail Dispensing Business on 13 years' lease at £52 per annum inclusive; returns £1,000 p.a.; excellent opportunity for young qualified man. Further particulars on application. (185)
 - 8.—**LANCASHIRE (Seaside Resort)**.—Death vacancy. Old-established Dispensing and Retail Business; lock-up shop under first-class hotel; on lease; returns over last 4 years average £1,900 p.a.; could be considerably increased under personal supervision; specially recommended. Further particulars on application. (192)
 - 9.—**CITY** Business for disposal, turnover of over £4,000 p.a., showing good net profit; well fitted in mahogany and well stocked; on lease at an inclusive rental, part-sublet. Further particulars on application. (2)
 - 10.—**SOMERSET**.—Drug and Photographic Business; premises, which consist of lock-up shop with room at rear, held on lease with 8 years to run at a rental of £88 p.a. inclusive; good scope for live man; price asked £400. (178)
 - 11.—**LONDON, E.**—Small Branch Business for quick disposal on lease 7 years at £38 p.a.; returns £15 weekly; living accommodation; good reasons for disposal; suit young, energetic pharmacist. (199)
 - 12.—**HAMPSHIRE**.—Family Dispensing and Retail Business for immediate disposal; premises held on lease 14-21 years at a rental of £90 per annum, including excellent living accommodation, garage, good garden; old-established business; shop beautifully fitted; returns £1,900; Medical Wine Licence; price to be arranged; full particulars on application. (190)
 - 13.—**YORKS.**—Dispensing and Retail Business, on lease 7 years at £52 p.a.; rates £32 p.a.; average returns £18 per week; modern house, 3 rooms; splendid opportunity for young energetic man. Full particulars on application. (193)
 - 14.—**LONDON, N.W.**—On lease, 8 years to run, at rental of £78 p.a. inclusive; returns £10 per week; excellent opportunity for qualified man; good opening for N.H.I. Further particulars on application. (195)
 - 15.—**LONDON, S.E.**—Recently-established Chemist's Business for immediate disposal; lease 18 years to run at small progressive rent; lock-up, double-fronted shop, well fitted in mahogany; returns approximately £900, which can be considerably increased with personal supervision; further particulars on application. (197)
 - 16.—**DORSET**.—Cash Drug Stores and Tobacconist's, with sub P.O.; 7 or 14 years' lease will be granted at £130 p.a.; returns, drug £1,500, tobacco £500, P.O. £145; good living accommodation; one room above tobacconist; let off to dentist two days a week at 15s. per week; low price for quick sale. (4)
 - 17.—**HERTS.**—Unopposed Light Country Retail Business, about 28 miles from London, main road to Cambridge; easily worked; no Sunday duty; no N.H.I.; Kodak Agency; returns £2,100; net profit 50%; good all-round stock; nearest opposition 4 miles; good living accommodation; electric light; garden; modern drainage; owner retiring; quick sale desired. (5)
- Stocktaking and Valuation of Businesses undertaken at moderate inclusive fee. Chemists are invited to consult us in respect of their requirements in connection with sale or purchase of businesses. Chemists in the North are requested to communicate with our Liverpool Offices.

BERDOE & FISH CHEMISTS' VALUERS & TRANSFER AGENTS

41 Argyle Square, KING'S CROSS, W.C.1

(One minute from St. Pancras and King's Cross Stations.)

- 1.—**ESSEX COAST**.—Good-class Retail Dispensing and Photographic Business; returns about £2,500; fine main road position; scope for increase; large shop with good house attached; price £1,500, or first reasonable offer.
- 2.—**HERTS.**—Good-class Country Retail, in market town, easy reach of London; returns £2,000; gross profits £700; nice house and garden; low rent; on lease; stock and fixtures worth £1,100; offers invited.
- 3.—**MANCHESTER**.—Middle-class Light Suburban Retail, under management; returns over £1,600; well-fitted pharmacy; good house; lease granted; price £1,150.
- 4.—**THAMES VALLEY**.—Good-class Business, in very best position, growing district; returns £1,900; modern pharmacy with flat over; good stock; price £1,500.
- 5.—**SOUTH COAST**.—Good-class Retail, Dispensing and Photographic Business; returns over £1,900, increasing; net profit £470; modern lock-up shop, well fitted and stocked; price £1,075.
- 6.—**YORKS.**—Unopposed good Light Retail, adjoining large town; returns £1,250, increasing; low rent; on lease; lock-up corner pharmacy; well fitted and stocked; price £950.
- 7.—**HACKNEY (Near)**.—Old-established Light Retail, with large Panel; fine opening for Photo; returns £2,500; net profit over £750; own property; long lease granted; house attached; price £1,650, or offer.
- 8.—**LONDON, N.W.**—Sound Light Cash Retail, with Kodak and Rexall Agencies; returns average £2,500; good profits; long lease; lock-up shop; well stocked; price for early sale £1,350.
- 9.—**LONDON, S.W.**—Good middle-class, with Kodak Agency, returning nearly £1,700; main road position; scope for increase; handsome modern pharmacy; good stock; price £1,000.
- 10.—**LONDON, W.**—Good-class Cash Retail, with Kodak Agency; returns about £2,200; net profit £550; audited figures; lock-up pharmacy; good position and fully stocked; price £1,350.

BUSINESSES WANTED.

BERDOE & FISH are in immediate want of sound Businesses B up to £4,000, and cordially invite correspondence from intending vendors. We have a large number of cash buyers waiting, and are able to negotiate sales quickly and without publicity. Transfer Offices, 41 Argyle Square, King's Cross, W.C.1. Estab. 1870. Telephone: Terminus 3574.

JOHN BRIERLEY, F.N.A.A.

CHEMISTS' VALUER and TRANSFER AGENT,

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Exclusive offers.—Isle of Wight, Midlands, Blackpool, Southport (near), Bolton and Manchester, at valuation.

Approx. £350 to £1,500 required.

"Valuations by fully qualified staff." (Tel.: Failsforth 113.)

If you require the services of a VALUER for the SALE or PURCHASE of a CHEMISTS' BUSINESS, write to me.

CHARLES E. NAYLOR

CHEMISTS' VALUER,

170 Vesper Road, Kirkstall, LEEDS.

Tel.: Horsforth 324.

SALE BY AUCTION.

Re A. B. Knowles, Raquel, Ltd., and other Estates. Removed for convenience of sale.

5 LITTLE BRITAIN (close to G.P.O.) LONDON, E.C.1.

The almost new and well-made

CHEMISTS' FITTINGS AND SHOWCASES,

including Dispensing Counters and Screens, Wall Fittings and Recess Mirrors, Chemists' and Perfumers' mirror-lined and other Wall Showcases, Counters with slope fronts and mirrored doors at back, all plate-glass Counters and Silent Salesmen, Centre Showcases, Cash Desks, two National Cash Register Tills, Type-writers, etc.

B. NORMAN & SON

will Sell by Auction at their Sale Rooms, as above,

WEDNESDAY NEXT, at ONE o'clock.

On View day prior. Catalogues of the Auctioneers as above.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

BLACKPOOL.—Good-class Business for Sale, busy main road; double-fronted shop; excellent modern fittings; living accommodation attached; electric light throughout; returns for the last two years £2,415, £2,513 respectively; rent £210; at valuation for quick sale; approximately £900. Apply 36/36, Office of this Paper.

BRIGHTON (on Main Road to Sea Front).—Small Retail and Photographic Business; all cash; ample scope for development on modern lines by young, energetic man; fine opening for Optics, and much Insurance work available, but not at present undertaken; modern double-front and well-fitted shop; personal calls desired if possible. W. W. Thomas, 1 Waterloo Place, Brighton.

HAMBLEDON, HANTS.—£300. Chemist's Business for Sale; no opposition; only chemist in village; stock at valuation; splendid opportunity for anyone with small capital; rental £25 per annum; house above shop; business established over 40 years. Premises can be bought from W. B. Duncan, Chemist, Hambledon.

KNIGHTSBRIDGE.—Lease of First Floor and Business of Beauty Specialist for Sale; the premises are attractively decorated and well fitted with all necessary apparatus for electric bath, massage, sun ray treatment, etc.; lease about 13½ years; rent £350, inclusive; price £1,350 (subject to contract). Agents, Messrs. Knight, Frank & Rutley, 20 Hanover Square, London, W.1.

LEEDS.—Drug Store, with house; main road; returns £1,100; rent and rates £75; splendid opening for N.H.I. and Photography; vendor ill; sacrifice at £650. Also in West Riding, two Village Chemists, unopposed, one with house, low rent, doing £1,000; good profits; price £550; another doing £1,250, under manager; good N.H.I.; price, valuation or £700. Also Drug Store; beautifully fitted and well stocked; opened six months and doing well; opposite doctor with big panel practice; good opening for young chemist; price £350, or offer. Marsden, Chemists' Valuer, 44 Sholebroke View, Leeds.

LINCOLNSHIRE.—For Sale, one of the best Village Mixed Drug Businesses (not the manure business) in the county; house and well-stocked shop; good reason for disposal. Shepperston, Kirton, Boston.

LONDON, N.—Drug Stores; lock-up; good scope for N.H.I.; no near opposition; sadly neglected; price £275 all at; early transfer desired; full particulars at interview. "Hypo," 36/39, Office of this Paper.

LONDON (North-West Suburb).—High-class Family and Dispensing Business, in prominent main road position; turnover exceeds £3,000, and with personal attention could be much increased; gross profits 40 per cent.; 21 years' lease granted; fully stocked; price £2,500. Apply "Bona-fide," 153/420, Office of this Paper.

MIDLAND CITY.—Opening for Chemist or multiple firm; double-fronted shop; exceptional position; good-class trade; turnover approximately £1,000 per annum; can be doubled; stock, fixtures and fittings approximately £700; Kodak Agency; premises may be rented or purchased if desired; auditor's figures; good reason for disposal. Apply 35/19, Office of this Paper.

NORTH WALES.—Country Business for disposal; has been carried on very successfully for many years by the widow of the late proprietor, who wishes to retire; excellent opportunity for a qualified man to develop N.H.I.; can be bought at a very reasonable figure. Apply "North Wales," Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool.

SHEFFIELD (Busy Main Road).—Well-established Pharmacy; turnover about £1,000, plus N.H.I. (450 per month average); D. & P. connection, Kodak Agency; rent £35 per annum; offers unlimited scope to progressive man; price, stock and fixtures valuation. Apply 354 Langsett Road.

SHROPSHIRE.—Old-established Business, Prescribing, Dispensing and Agricultural, for disposal; large shop; modern fittings; electric light; heavily stocked; low rent, on lease; returns £1,300, under unqualified management; N.H.I. and Optics wanted; £1,100; a registered man is essential. 34/12, Office of this Paper.

SOUTH COAST (one minute from sea).—Very old-established Business; entirely unopposed; Kodak Agency; returns last year £2,350, increasing; very low rent, on lease; shop double-fronted, house six rooms; electric light and gas; price £1,450; references required; owner going abroad. 37/30, Office of this Paper.

S.W.—SOUND middle-class Business; returns £1,100, increasing; established 6 years; lease 7½ years; property can be bought reasonable; net profit £280; amply stocked and fitted; rent £65; house sub-let to cover rent and rates; N.H.I. 200 per month; price £700 net. 37/9, Office of this Paper.

WATFORD.—The Business carried on by the late Mr. Richard Bennion, Chemist, 76 St. Albans Road, Watford, Herts, is for Sale, with shop and dwelling-house and premises. For further particulars apply Owen Bennion, Seighford, Stafford.

WEST WALES.—Don't argue, don't waste time and expense corresponding. First Pharmacist who is prepared to give £350 gets the opportunity of his life; lock-up shop (one room); 10s. weekly rent; takings, 1928, £800; lovely surroundings; no Welsh; can be doubled; if not please do not apply. 35/1, Office of this Paper.

DRUG STORE.—Village, Lincolnshire; good house and garden at 12s. rent; well stocked; established over 5 years; sound reasons for selling; good opening; reasonable price asked. 20/40, Office of this Paper.

ESTABLISHED Business, showing a good living, in thickly populated area of Central London, near London Bridge; well fitted and stocked; rent and rates 30s. per week (house attached if required); health reasons sole cause of sale; will accept reasonable figure from immediate buyer; capital required between £500 and £600; a good opportunity for a young Chemist. For interview, etc., write 34/38, Office of this Paper.

EXCEPTIONAL OFFER.—Health resort; Essex Coast; four minutes from sea; no opposition; population 2,500; rapidly developing; established 26 years; vendor retiring; Dispensing, Prescribing and good-class Retail; returns £1,200; no N.H.I.; large house and garden; freehold; premises to Lease or Sell; business, stock, fixtures and goodwill £700; trade or bank references asked for to ensure bona-fides. 35/11, Office of this Paper.

FOR SALE,
Registered Trade Mark and Formulas of
THE DOROLINE CO.,
Manufacturers of Dental Cream, Talcum, Violet
Powder, etc.

Stock consisting of
Collapsible Tube Filling and Mixing Machine,
Mechanical and Hand Sieve, Closing Press, Printed
Collapsible Tubes, Talcum, Baby Violet Powder, and
Brilliantine Tins, Labels, Wrappers, Precip. Chalk,
Talc Powder, Fuller's Earth, Soap Powder, Oils,
Glycerine, etc. £20 to clear, or near offer. 35/26,
Office of this Paper.

PHOTOGRAPHIC, Drug, Toilet and Gramophone Business, main road, South-East London; takings £1,600 net; profit £375; stock and fixtures about £450, all at, including goodwill £550; established 7 years; long lease; good house; electric light; good cellars; developing tanks; rent £68. 153/423, Office of this Paper.

BUSINESSES WANTED.

ADVERTISER is requiring a Business with a turnover about £2,000; a house attached with garden essential. Full particulars (in confidence) 37/33, Office of this Paper.

COUNTRY or Suburban Business, with good house; net profits about £400; must bear investigation. Full particulars (in confidence) to "Private," 35/21, Office of this Paper.

AGENCIES.

ADVERTISER, excellent long-standing connection Chemists, South and West Wales, open for first-class Agencies or Proprietaries; own car; commission and expenses basis. Reply "H. L. M.," 25/9, Office of this Paper.

CHEMIST, qualified, several years' travelling experience, calling on Wholesale and Retail Chemists throughout Scotland, is open for first-class Agencies; own saloon car. 31/36, Office of this Paper.

INCREASE YOUR EXPORT TRADE!—A responsible company, 30 years' standing, large factory near Paris, laboratories under fully qualified French and English Chemists, own advertising organisation, extensive connection for sale and distribution, will take up Agencies for France and Colonies of important British and American Pharmaceutical Preparations. Apply Managing Director, Société Française du Lysol, Ivry-sur-Seine, France.

REPRESENTATIVE, on short London visit, of General Commissionaire of a Proprietary Continental Medicine of proved efficacy and success, seeks first-class Druggist or suitable Merchant, both with Colonial relations, to transact concession on commission basis only, but agent undertaking advertisements expenses. Apply E. Kantardji, 28-29 Ladbroke Gardens, W.11.

YOUNG man, 25, wishes to get in touch with Manufacturers open to appoint an Agent in Northern Ireland; good connection with Wholesale and Retail Chemists. Full particulars, 24/2, Office of this Paper.

APPOINTMENT.**CITY OF PLYMOUTH.**

PLYMOUTH AND DEVONPORT TECHNICAL COLLEGE.
Principal: W. S. Templeton, M.A., B.Sc., F.Inst.P., A.M.I.E.E.

The Education Committee require for the Day and Evening Classes an Assistant Lecturer in the Pharmaceutical Department. Applicants should be Pharmaceutical Chemists or hold the degree of B.Pharm., with some teaching experience if possible. Salary according to the Burnham Scale. Last day for receiving applications, 27th July, 1929. Further particulars and form of application obtainable from E. Chandler Cook, Secretary for Education, Rowe Street, Plymouth.

GREENWICH UNION.**GREENWICH AND DEPTFORD HOSPITAL.
DISPENSER.**

THE Guardians of the Greenwich Union invite applications for the appointment of Dispenser at the above Hospital in accordance with the Regulations of the Ministry of Health.

Candidates must be qualified for the appointment. The person appointed will be required to take duty for two hours on alternate Sundays and Bank Holidays and to dispense for the Institution and a certain number of the Outdoor Poor when necessary. Remuneration £350 per annum, increasing £10 annually, to a maximum of £400, subject to deductions under the Poor Law Officers' Superannuation Act, 1896. Further particulars of duties may be obtained from the Medical Superintendent of the Hospital.

Applications to be made on forms to be obtained at the Guardians' Offices, Board Room, Woolwich Road, East Greenwich, and they should be returned to the same address not later than noon on the 22nd day of July, 1929. Canvassing the Guardians either directly or indirectly is prohibited and will disqualify.

By Order,

W. C. CORNISH,

Clerk to the Guardians.

July, 1929.

PREMISES TO LET.

COLCHESTER.—New Arcade, nearing completion, situated in real live shopping centre; offers every facility for shopping whether wet or fine; ideal situation in ready-money part of town; moderate rents; seek further particulars. Chemists should inquire.

NEASDEN.—Shop, with Self-contained Flat, very suitable for Chemist; near Met. Station; good position; rent £150, increasing to £200; shop front fitted. H. Gibson, Metropolitan Railway, Baker Street Station, N.W.1.

SHOPS with Flat over to Let on lease in excellent position at Bromley; suit Chemist. Apply Baxter, Payne & Lepper, opposite G.P.O., Bromley, Kent.

PREMISES FOR SALE.

FOR SALE, House and Shop, comprising living room, kitchen, scullery, pantry, 3 bedrooms, bath, w.c., and large shop, situate between housing scheme and residential quarters, on bus route and near Esplanade; growing district; no opposition; excellent possibilities for Chemist and Druggist. Apply Frank Ashton, Builder, 45 Agnew Road, Fleetwood.

APPRENTICES WANTED.

TWO Apprentices required for Pharmacies in North-East London; good grounding in all branches of the profession; time allowed for classes. Apply 34/6, Office of this Paper.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an Advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

SITUATIONS OPEN.**RETAIL [HOME].**

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

ABERGAVENNY.—M.P.S., J.C.Q.O., or nearly; married; over 35; £4 and good house; every advancement to good Window and Counterman; small business in beautiful district; no mining. Ellis, Chemist, Brecon.

BIRMINGHAM.—At earliest, Qualified Assistant; single; quick, accurate Dispenser; fully capable of taking charge; good prospect for up-to-date man. Also smart Junior; energetic, Window-dresser and accustomed to large N.H.I.; knowledge of Photographics advantageous. All particulars, with photograph, in first letter to H. Critchlow, Pharmacist, 161 Monument Road, Edgbaston, Birmingham.

ILFDOR (Essex).—Manager (male) for good-class light Retail; must be good Counterman, knowledge of Photography, keen. Apply, stating particulars of experience, age, references, height, salary required (photo if possible), to T. Bellamy, Tindal Square, Chelmsford.

LIVERPOOL.—Qualified Manager, 25 to 35, at once, for middle-class business; permanent and progressive position for a capable man. Fullst particulars to "Chemist," 278 Westminster Road, Liverpool.

LONDON, E.—Qualified Manager for busy industrial business with large N.H.I.; must be a really smart man with plenty of ability; one with experience in this type of business preferred. State experience, age, salary, and when at liberty to 35/273, Office of this Paper.

LONDON, N.W.—Smart qualified Manager for Family business in a good-class suburb; must be good Window-dresser and thoroughly up to date. State age, previous experience, salary required, and when at liberty to 35/272, Office of this Paper.

LONDON, W.—First-class qualified Assistant to take charge of Dispensing in leading West-End business; preference given to man with previous experience in similar business. Send full details, age, experience, salary required, when at liberty, etc., in first letter. 35/276, Office of this Paper.

LONDON, S.E.—Experienced qualified Manager for busy cash business with heavy N.H.I.; applicants must be keen and energetic, with real knowledge of this type of business. Send all details as to experience, age, if disengaged, and salary required to 35/270, Office of this Paper.

LONDON, W.—Family Business (no house); heavy N.H.I. needs; qualified Manager; must have had previous experience in busy industrial business. Send copy references and details as to age, salary, and previous experience to 35/27, Office of this Paper.

LONDON, E.—Junior Assistant wanted (August 6); working-class trade; must be capable, steady, reliable, with knowledge of Dispensing and Photography. State (letters only) age, salary, experience, and references. Applications unanswered by July 27 declined. Also qualified Locum wanted for fortnight in September. Endersley, 7 Forest View, Chingford.

LONDON.—Smart young Junior wanted, age about 20. Epps, Thatcher & Co., 60 Jermyn Street, S.W.1.

LONDON, E.1.—Wanted, immediately, qualified Dispenser; permanency for suitable man. State age, salary required, and when at liberty; no Sunday duty. P.C.B. 47/26, Office of this Paper.

LONDON, W.8.—Temporary Junior Assistant (male) required during holiday season; also experienced permanent Qualified Assistant, age 30-35; high-class Dispensing business. Send full particulars of experience and salary required to Inman, c/o Harrington, 15 Kensington High Street, W.8.

LONDON.—Qualified Assistant wanted; permanent; capable of taking charge; good Dispenser and Salesman; middle- and working-class business. Write, stating age, experience, references and salary required, to 37/15, Office of this Paper.

PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 60 to 100 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

LONDON, W.—A vacancy will occur at the end of September in a high-class Dispensing business for a qualified Managing Assistant, about 35 years of age; only those of first-class experience and of good address need apply; three assistants kept. 36/20, Office of this Paper.

LONDON (South-West).—Qualified Assistant (gentleman), with good-class front Counter experience, Dispensing and Window-dressing. Give age, salary and experience, to 153/416, Office of this Paper.

LONDON, W.1.—Wanted, immediately, qualified Assistant (with two others) for high-class West-End Dispensing Pharmacy; permanency. Please give fullest particulars of experience, etc., salary required, and when disengaged to 37/28, Office of this Paper.

LONDON, E.—Qualified Assistant; one accustomed to N.H.I. Dispensing and medium-class trade preferred. Please state in first letter particulars of experience, names of references, age, when at liberty and salary expected. Apply 37/22, Office of this Paper.

LONDON.—Reliable, qualified Assistant; N.H.I., Photographs (D. & P. sent out); good Salesman and energetic; state salary. 37/16, Office of this Paper.

MIDDLESEX.—Qualified Manager for new business (no house) in quickly growing suburb; excellent opportunity for a smart man to make good. Full details in first letter. Experience, age, salary, and when at liberty to 35/274, Office of this Paper.

SLOUGH.—Manager (qualified), married, for Family business, with house attached; must be keen worker, with previous experience in this type of business. Give age, experience, salary, and when disengaged to 35/271, Office of this Paper.

SURREY.—Wanted, temporary qualified Assistant, young, for one month from July 29; two kept. State usual particulars and salary required. 35/25, Office of this Paper.

TUNBRIDGE WELLS.—Qualified Assistant, 25; must be accustomed to good-class Dispensing and Counter business. Godkin, 1 High Street, Tunbridge Wells.

LADY (qualified) or Gentleman required, permanent position in London, as Manager; light, easy position, with good prospects. State full particulars. "Chemist," 19 St. Mark's Road, E.8. (Phone: East 6595.)

AN active, qualified Assistant required in Leicester. State salary required, which must be moderate; single man preferred. 35/15, Office of this Paper.

AN experienced all-round Assistant wanted immediately, age 21 to 25 years; must be accurate, self-reliant Dispenser, with good working knowledge of D.D.R., Labelling of Poisons Order, etc.; credentials thoroughly investigated. Full particulars in first letter, or call (before 1 p.m.) at 7 Brockley Rise, Forest Hill, S.E.23.

ASSISTANT, competent, good Salesman and quick Dispenser, at once. Full particulars first letter, J. Roe, Chemist, Epsom.

CAPABLE, qualified Managing Chemist for new department; Photographic and Optical experience essential. State full particulars of experience, age, references, and salary required. Applications by first post, Thursday, July 25, to Secretary, Cleckheaton Industrial Co-operative Society, Ltd., Northgate, Cleckheaton, endorsed "Chemist."

CAPABLE, qualified Managing Chemist for new department; Photographic and Optical experience essential; married man preferred; photo if possible. State full particulars of experience, age, height, references, and salary required. Applications by first post Wednesday, July 24, to Managing Secretary, Cinderford Co-operative and Industrial Society, Ltd., Town Hall Buildings, Cinderford, Glos.

CHEMIST, qualified Locum wanted from August 12 to August 28 inclusive, for City. Apply, with references, Henderson, Oakleigh Pharmacy, Ltd., Hillingdon Heath, near Uxbridge. Phone: Hayes 285.

COPPEN BROS. require a Locum (fully qualified) for their Richmond (Surrey) branch, two weeks, commencing August 26 to September 7; no Sunday work. Apply, personally or by letter, Coppen Bros., 124 Carey Street, Vincent Square, Westminster, S.W.1.

DISPENSING DEPARTMENT.—Qualified (Minor) female Assistant required. Write in first instance, giving fullest particulars as to experience, age, and salary required, etc., to Staff Manager, Civil Service Stores, 156 Queen Victoria Street, E.C.4.

FULLY qualified Dispenser (lady) required, to commence duty September; salary £200 per annum, lunch and tea being provided. Full particulars, with copies of testimonials, to Secretary, Royal Eye Hospital, St. George's Circus, S.E.1, on or before August 15. N.B.—The person appointed must conform to the Hospital's rules under the Federated Superannuation Scheme for Hospital Officers.

JUNIOR Assistant for working-class business in London, W.; must be good Dispenser and Counterman. Applicants should send details as to age, experience, salary, and if disengaged to 35/275, Office of this Paper.

LOCUM, qualified, for Drug Department, September 2-14 inclusive. Applications, containing details as to age and inclusive salary, together with references, to be addressed to the Secretary, Co-operative Society, Ltd., Batley.

LOCUM Pharmacist, Hospital, London, W., August 19 to September 7 inclusive. (Not answered in 3 days declined.) Full details to 153/419, Office of this Paper.

MANAGER for high-class Cash Dispensing Chemists wanted, South Midlands. Applicants must be capable business men, accustomed to good-class trade, with experience, ability and energy. Further particulars on application, with photograph, Managing Director, 54 Long Row, Nottingham.

MESSRS. T. & W. & W. SOUTHALL, LTD., 17 Bull Street, Birmingham, have a vacancy for a qualified chemist; must have had good Dispensing experience; one with Optical qualifications will have preference. State age, salary, references, and when at liberty in first letter.

PART-TIME Assistant Dispenser required, to commence duty on September 1. Apply, giving all particulars, to the Secretary, Royal Victoria and West Hants Hospital, Ashley Road, Boscombe.

QUALIFIED young lady or gentleman to open Country Pharmacist's Shop and Stores in rapidly growing district near to Birmingham; in addition to usual M.P.S. qualifications those with knowledge of Veterinary, Agricultural and Horticultural Chemistry preferred; good prospects to right person. State salary and full particulars. 153/411, Office of this Paper.

QUALIFIED Assistant required for Branch doing middle- and working-class trade; must be courteous and energetic Counterman; reasonable hours; good living accommodation. State age, experience, and full particulars, including salary required, to Fisher & Co., Bath Street, Leamington Spa.

QUALIFIED Manager required immediately; working-class district; living accommodation. Full particulars to F. Gardiner, Ltd., 22 Bell Hill Road, St. George, Bristol.

QUALIFIED Lady Chemist needed as soon as possible for shop in London, S.E.13. Apply 36/12, Office of this Paper.

QUALIFIED man wanted for branch shop in London, S.E.; convenient, easily-worked Pharmacy with N.H.I. and Photography; permanency to suitable man; Locum considered. Age and salary expected (outdoors) to "immediate," 36/25, Office of this Paper.

QUALIFIED, elderly would suit, for London, E.; short hours. Please state salary expected. 37/1, Office of this Paper.

QUALIFIED (Minor); middle-aged or elderly; either sex; Light Dispensing and nominal duties; short hours; moderate salary. Particulars, wages, and when at liberty; South-East Coast. 38/4, Office of this Paper.

QUALIFIED Assistant, accustomed to West-End district; good Dispenser and Counter-hand, with knowledge of Photography; good berth for smart man not under 25. Fullest particulars to 37/37, Office of this Paper.

UNQUALIFIED Assistant (lady) wanted for end of August. Savage, 13 Queen's Road, Bournemouth.

UNQUALIFIED Assistant required for London suburb, wages about £2 10s., age 21, for July 29; Scot preferred; must be quick and accurate Dispenser; experienced in all branches. Apply, with references, stating age and height, photo if possible, P.C.B. 47/21, Office of this Paper.

UNQUALIFIED or qualified Assistant, with J.C.Q.O. qualification, for good-class Retail, Dispensing and Optical business. Terms, details of experience, and photo if possible, to Hall, The Broadway, Crouch End, London, N.8.

WANTED, qualified lady Assistant for Dispensing, Counter. State salary, height and experience. W. E. Matthews, Ltd., 40 George Street, Croydon.

WANTED, Junior Assistant, unqualified, August 1, for four weeks. Apply, stating age, experience, salary and references, Henry Chapman & Sons, 52 Newborough, Scarborough.

WANTED, for East London, unqualified lady for Dispensing and Counter; must be quick and accurate. Reply, with copies of references and state salary required, to 153/415, Office of this Paper.

YOUNG qualified man wanted to take charge of small branch in Derbyshire. Usual particulars and references to 35/10, Office of this Paper.

WHOLESALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

A LONDON Wholesale Drug House requires a young, energetic Representative, with connection, on a salary, expenses, and commission basis. "R. T.," 153/410, Office of this Paper.

A PROVINCIAL Drug House requires the services of an experienced Dry Room Assistant, capable of taking control. Apply, giving full particulars of past employment, age and wages expected, to 35/20, Office of this Paper.

A BLE Representative wanted, with good Chemist and Store connections throughout London; existing connection handed over; good commission and part expenses. 153/412, Office of this Paper.

ADDITIONAL Representatives for London and Midlands are required by old-established Manufacturing Chemists marketing nationally advertised Proprietaries; the work calls for business men of character, ambition, initiative, ability and persuasive personality; qualification unnecessary; salary, travelling expenses and commission. Details of career, experience, salary earned, and required (in confidence) to 153/409, Office of this Paper.

CHEMICALS.—Wanted, active Traveller, with good knowledge; experience Technical, Fine and Photo Chemicals; London and South. State experience, age, salary. 153/424, Office of this Paper.

INVOICE Typist required, accustomed to invoicing for a Wholesale House. Apply, with full particulars, age, salary and experience, etc., to Parumeries de Paris, Ltd., Larden Road, Acton, W.3.

LADY Dispenser, with good experience, for Mixing and Packing Department (chiefly Tablets and Capsules) of small Wholesale House. State salary required, particulars of experience, and when free. 153/415, Office of this Paper.

LONDON Representative required by an old-established Manufacturing Firm of Surgical Indiarubber Goods; a knowledge of and a connection with the Wholesale Chemists' Sundries Houses an advantage; salary and commission; applications will be treated in strict confidence. Give full particulars of age, experience, salary expected, etc., to "H. V.," c/o Streets, 6 Gracechurch Street, E.C.3.

MANUFACTURER of well-known Proprietaries nationally advertised and commanding extensive sales requires Representative for Manchester and Sheffield areas; salary and expenses; no commission. Replies, stating age and giving full particulars of experience and references, to 153/417, Office of this Paper.

REPRESENTATIVES wanted for Lancashire, Yorkshire and Staffordshire; salary and commission. Apply "J. F.," c/o Messrs. Clay & Abraham, Ltd., 87 Bold Street, Liverpool.

SALES Manager, young, required to handle Proprietary lines; travelling experience essential; Chemists and Stores; salary, expenses and interest in department. Replies, stating experience, salary required, and full particulars, will be received in confidence. "Z.F.737," care Deacon's Advertising Offices, Fenchurch Avenue, E.C.3.

TRAVELLER required to represent a firm of Manufacturers who are well known in England; must have a good connection among Chemists, to show an additional line in London; also required for Co. Durham; a good commission and allowance to a first-class man. Apply to 153/414, Office of this Paper.

WELL-KNOWN Manufacturing House, with old-established connection, require the services of a Representative, preferably young, for North Midlands. Applicants should give full particulars of their past experience, age, and state whether they have any connection on the above ground. 35/200, Office of this Paper.

YOUNG Assistant Warehouse Manager required for London Wholesale House; qualified; previous experience not imperative. State age and salary expected. "Assistant," 153/421, Office of this Paper.

(COLONIAL, INDIAN AND FOREIGN.)

FAR EAST.—Pill Maker-Coater, experienced, required by well-established firm to control small Pill-making Outfit in Far East (not tropical climate); regular position for reliable man; passage paid by advertiser. Give full details of experience and salary expected, addressing "Pacific," 153/418, Office of this Paper.

FRANCE.—Smart Junior Assistant, immediately; knowledge of French preferred; good Counterman essential. Write, giving full particulars, experience, copies of references, photo (to be returned), J. V. Parsons, English Chemist, Boulogne-sur-Mer, France.

INDIA.—British firm, Wholesale and Retail Chemists in Calcutta, require Assistant, about 25, single; must have Minor qualification and be a neat Dispenser; Photographic knowledge an advantage; 4 years' agreement; salary, first year, Rupees 500 monthly (equivalent to £37 15s.); second, Rs. 525 (£39 12s. 6d.); third, Rs. 550 (£41 10s.); fourth, Rs. 575 (£43 7s. 6d.); passage paid out and home. Apply, giving particulars of experience, to P.C.B. 47/24, Office of this Paper.

SITUATIONS WANTED.

RETAIL [HOME].

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

A.A.—QUALIFIED; 28; twelve years' London and Continental experience, desires position as Manager or Assistant; smart business man, with all-round ability and good appearance. 36/21, Office of this Paper.

A PHARMACIST, 27, single, as Manager; experienced; methodical; sound references; North London, Bedfordshire or Hertfordshire; please state salary. 36/9, Office of this Paper.

A PHARMACIST as Manager; young; well experienced; capable; sound references; London suburban district preferred, but not essential. 36/32, Office of this Paper.

A QUALIFIED Chemist requires position; 26; excellent references and experience; disengaged August 12. 15 Bedford Street, Liverpool.

ADVERTISER, unqualified, 32, single, tall, seeks post with prospects; good personality; first-class Salesman; not afraid of work; willing; can take charge; excellent testimonials; disengaged one month. 36/50, Office of this Paper.

ADVERTISER (M.P.S.) desires management of good-class Family Dispensing business, with residence preferred; married; abstainer; sound all-round experience. Prescribing and Veterinary. "Audax," 38/28, Office of this Paper.

A S General Assistant, Senior or Locum; 30 years' experience; good businesses and heavy Panel. "G.," 130 Scott-Ellis Gardens, N.W.8.

A SSISTANT (Part I) desires evening Dispensing work; thoroughly reliable; free July 29; anywhere between Birmingham and Dudley; excellent references. H. Baker, 71 Highfield Road, Dudley.

A SSISTANT; unqualified; disengaged; 30; married; 12½ years' good all-round experience, Counter, Window-dressing, Dispensing, Photographic (D. & P.); keen, active, enterprising, obliging, trustworthy, and capable; would manage Drug Stores; interview any time; in or near London. "X. Y. Z.," 761 Garratt Lane, S.W.17.

A SSISTANT, 27, unqualified, requires temporary situation. 5½ years' experience; good reference; coast suitable. Kidson, 45a Atherfold Road, Clapham.

A SSISTANT; part-time or Locum; middle-age; experienced Dispenser or manage Drug Stores; salary moderate. "T.," 50 Gladstone Street, Battersea, S.W.

A SSISTANT, aged 21 (Part I), capable Dispenser and Salesman, desires situation in good-class Pharmacy; Manchester or district preferred; disengaged August 1. Fiel, 10 Joynson Street, Bury New Road, Manchester.

A SSISTANT; 25; unqualified; 10 years' experience all departments; quick; capable; good references; disengaged; permanency or Locum. "S. T. O.," 3 Cotleigh Road, N.W.6.

ASSISTANT, finished Part I, seeks evening appointment. London; excellent all-round experience; good testimonials. Klein, "Summerfield," West Park Road, Kew.

ASSISTANT, 21 (Part I); Dispensing, Counter, Window; time for study; Birmingham district preferred. Bartley, "The Towers," Studley, Warwickshire.

ASSISTANT, unqualified, alert, energetic, desires post(s) as Locum, July 22-September 14; 5½ years' excellent experience, Counter, Dispensing, Photographic (D. & P.); West-End; can manage; take any duties; excellent references. Evans, 62 Marylands Road, Paddington; W.9.

ASSISTANT, unqualified, 25, requires permanent or temporary position; good all-round experience; conscientious worker; good references; now free. 36/29, Office of this Paper.

ASSISTANT; unqualified; experienced. Dispensing, Photographic, Counter; manage Drug Stores; Locum or part-time; London, Metropolis, only. Write 36/38, Office of this Paper.

BRANCH Manager; qualified; thoroughly experienced; competent, genuine service; disengaged (ex-Locum) August 10; locality optional. Johnson, 128 Upper Clapton Road, E.5.

BRISTOL or South-West district (preferred, but not essential). M.P.S. desires post as Manager or Assistant; 5 years' experience as manager. Keast, 2 Frayne Road, Ashton Gate, Bristol.

CAPABLE Chemist as Manager in or near London; permanency, with house preferred; thorough knowledge of good Family trade; Photography and Optics; highest testimonials; or would act as Locum. "Chemist," 34 Woodstock Road, Bedford Park, W.4.

DISENGAGED—Locum; qualified; excepting August 10-24; 20 years' West-End and South Coast experience; 40; tall; good appearance and address; no encumbrance. Austin, 10 Baker Street, Brighton.

DISENGAGED; 37; qualified; capable, with all-round experience; manager some years; good references; married; Locum or permanent. H. R. Halke, 39 Monks Road, Lincoln.

DISENGAGED—Locum; unqualified; high-class West-End experience; middle-aged. Arthur, 62 Caldecot Road, Denmark Hill, London, S.E.5.

DISENGAGED July 24 till August 14; qualified; experienced, all-round Locum; at present Institution work; Chemist or Institution. "M.P.S.," 156 Lower Clapton Road, E.5.

ELDERLY, qualified, desires employment with short hours or part time; country town preferred. Baker, 81 Elgar Road, Reading.

ENERGETIC; unqualified; age 33; Counter, Window-dressing, Photographic, etc.; Manchester, Birmingham and London experience. Burley, Causeway Side, Linthwaite, Huddersfield.

FROM August 3 till 31; open for Locum engagement; Birmingham or Midland area preferred; well recommended. "Chemist," 64 Hunters Road, Birmingham.

LADY Dispenser (Hall) seeks Locum until August 23; London district preferred. P.C.B. 47/17, Office of this Paper.

LOCUM; unqualified; disengaged August, September, October. V. Keepence, 72 Foxton Road, Alum Rock, Birmingham.

LOCUM; qualified; middle-aged; active; vacant dates July 27 to August 24 inclusive; salary £5. "S.," "Highbury," Grafton Road, Worthing.

LOCUM; qualified; good experience and business ability; vacant dates, July 24 to August 12, August 24 to September 2, then after September 16; salary £5 per week, outdoors. "W.," 36/13, Office of this Paper.

LOCUM—Lady Dispenser (Hall); 14 years' experience; Doctor or Institution; now disengaged. Write 36/14, Office of this Paper.

LOCUM; qualified; disengaged now; highest references; any distance. "J.," 8 Victoria Road, Marlow-on-Thames.

LOCUM; July 22-August 10 inclusive; qualified; experienced; reliable. Waugh, 23 Nunroyd Road, Harrogate Road, Leeds.

LOCUM; 21; open dates from July 20 until September 7; good Dispenser; all-round experience; full or part time. "Chemist," 20 Somerset Road, Walthamstow, E.17.

LOCUM; unqualified; disengaged July 29 to August 10 and September 1; can manage. "Radix," 72 Tremadoc Road, Clapham, S.W.4.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith, and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensues. Strict attention to this detail will be appreciated.

LOCUM; August 26 to September 9 inclusive only vacant dates; town or country. "Chemicus," 56 Rudloe Road, Balham, S.W.12.

LOCUM; experienced and with first-class references; free August 3; any distance; unqualified. "W.," 5 The Paddock, Chatham.

LOCUM Tenens, M.P.S., F.I.O., B.O.A., J.C.Q.O.; first-class expert; ex-owner; at liberty; London or provinces; excellent credentials. "Pharmacist," 20 Wilton Road, Hounslow.

LOCUM; middle-age; reliable; able to take charge; available now; well recommended; moderate fee. "M.P.S.," Wynclyffe, Kingsgate, Broadstairs.

LOCUM; qualified; disengaged July 29 for one week and all September; excellent references and experience. Wood, c/o Mr. Lloyd-Williams, Chemist, Lichfield.

LOCUM—Qualified Chemist, long, all-round and first-class experience, completing nine weeks' engagement July 30, desires further appointment. Fitt, c/o Mr. Shepperd, Chemist, Barnstable.

MANAGER; qualified; under 30; experienced Salesmanship, Toilets, Photography, Display; good references; North London district or within 30 miles. "Veloce," 51 Union Street, Plymouth.

MANAGER or Assistant; unqualified; 45; Dispensing, Counter, Windows, Photographic; excellent references. "A. B.," 2 Walham Grove, S.W.6.

M.P.S., 26, desires post; 3 years' managing experience; Photo; living accommodation if possible; free month from date of appointment. 35/9, Office of this Paper.

M.P.S. DESIRES post as Manager or Assistant; would undertake Locum work; short or long periods; experienced; disengaged; London and suburbs preferred. 35/14, Office of this Paper.

PHARMACIST, 35, married, desires position as Manager in London or near Liverpool. "Pharmacist," 109 Amptill Road, Aigburth, Liverpool.

PHOTOGRAPHIC; experienced lady; 20; good Saleswoman, Window-dresser; trained quick Retail; two years' largest Photo Dealer South-East London; experienced Gramophones; typing; wages 35s. Barry, 45 Childers Street, Deptford, S.E.8.

QUALIFIED (lady), Scotch, 10 years' experience; town and country, wishes situation; Liverpool preferred; free end August; good references. 36/8, Office of this Paper.

QUALIFIED; single; 46; all-round experience; references good; disengaged. "Chemist," The Commercial Hotel, Dorking, Surrey.

QUALIFIED, single, 6 years' good all-round experience, desires situation; permanent; excellent references; London or large town preferred, but not essential. Watts, Bladon, Oxford.

QUALIFIED; 28; F.S.M.C.; tall; good appearance; West End and City experience; excellent reference. "T.," 26 Beckwith Road, Herne Hill, S.E.

QUALIFIED, young, tall, West-End training and experience, desires position of responsibility in good-class London pharmacy. Moore, 90 Radstock Road, Reading.

QUALIFIED; 23; seven years' all-round experience; Locum or permanent; disengaged. Ward, 8 Cormont Road, S.E.5. Phone: Brixton 6742.

QUALIFIED Lady Dispenser-Book-keeper, experienced, reliable, desires post with Doctor; locum or permanently. 38/3, Office of this Paper.

SCOT, M.P.S., M.I.C.O., 25, accustomed to high-class Dispensing and Retail Pharmacy, Photography, etc., desires progressive responsible position in South where Optical work could be done or introduced. Apply 35/4, Office of this Paper.

THOROUGHLY competent Locum or Manager, with wide experience; qualified; age 45; height 6 ft.; good appearance and address; free August 5. "Pharmacist," 69 Milton Road, Waterloo, Liverpool.

UNQUALIFIED; good experience; Dispensing, Counter and Photography; age 30; excellent references. "W." 60 Manchuria Road, Westside, Clapham Common, S.W.11.

UNQUALIFIED, 24, West-End experience, desires temporary or substantial part-time position. State salary and period required. 36/35, Office of this Paper.

UNQUALIFIED; Manager or Assistant; 18 years' experience; Chemist, Photographic, Fancy, Gramophones, Window-dresser; quick Retail; wages £4 10s. 153/422, Office of this Paper.

YOUNG man, 3½ years Pharmacy, desires position Retail, Wholesale or Agricultural Chemists; good references. Price, 6a Victoria Street, Sandbach.

WHOLESALE.

A POSITION as Representative is desired by young man of good education; energetic and capable; Lancashire ground preferred; excellent credentials. 37/7, Office of this Paper.

A LIVE Representative in Midlands, with sound connection, would consider a really good side line, Chemists and Hair-dressers. State particulars. 38/270, Office of this Paper.

A REPRESENTATIVE, 29, good education and appearance, desires post with company marketing Proprietary lines; connection among best Retailers and Stores in West-End and district, London; not only an order taker, but capable of salesmanship and propaganda; permanency desired. P.C.B. 47/20, Office of this Paper.

A REPRESENTATIVE, with exceptional records and sound connection London Chemists, Hairdressers and Stores, desires change, live Proprietary or Sundries House; good results assured to right firm; undeniable references; own car; salary and commission. 38/27, Office of this Paper.

A YOUNG man, unqualified but with 5 years' experience in Retail Pharmacy, seeks position as or with a view to becoming Representative to Wholesale Druggists or Sundriesmen; excellent references; now disengaged; would prefer salary-expenses basis; own car. Webster, Clarence House, Friern Park, N.12.

A DVERTISER wishes to represent Wholesale House, Lancashire-Cheshire area; long inside experience leading house; Drugs, Sundries, Serums, etc.; thorough knowledge requirements of the trade in this area; salary or salary and commission. 35/2, Office of this Paper.

A DVERTISER, qualified, extensive Retail experience, part-own business, residing Hampshire, would represent good Wholesale; age 50; keen, active; good personality; car journey preferred. 38/7, Office of this Paper.

A N active Chemist, first-class degrees, 18 years' practical experience in Chemical Preparations of all branches; good connection with firms abroad; Continental experience; good appearance; height 6 ft. 1½ in.; permanency preferred; references good. 35/17, Office of this Paper.

D EPARTMENT Manager, experienced English and Foreign Proprietary Perfumery, etc., seeks permanent situation. "R.," 4 Eddington Street, N.4.

R EPRESENTATIVE.—Leading Salesman requires additional line on commission and part expenses; sound connection London and suburbs; Stores, Multiple Chemists and Chemists. 37/40, Office of this Paper.

W ELL-KNOWN, experienced Traveller, Eastern Counties, etc., Chemists, Dentists, Doctors, seeks post good firm; part salary or expenses; excellent references. "E.," 4 Elm Hill, Norwich.

(COLONIAL, INDIAN AND FOREIGN.)

E XPERIENCED Qualified Chemist and Optician wants position overseas, view to succession; free now; F.S.M.S.; good climate essential. 36/28, Office of this Paper.

FOR SALE.

K ODAK Commercial Printer, guaranteed perfect, seven guineas, carriage forward; Oxygen Gauge and fine adjustment, tap and two cylinders, £5. Clarke, Chemist, Newport, Mon.

CLEAR OUT—your Old or Damaged Stock of Photo Goods.

Why keep them any longer? Turn them into CASH.

I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers. Cards (any sizes). Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.
S. E. HACKETT, 23 July Road, Liverpool

MISCELLANEOUS.

CHEMISTS' FITTINGS.—Silent Salesman Cases, Drugfittings, Wallcases, Dispensing Screens, glass-front Counters, Perfumo Cases, Window Enclosures, Glass Shelves, Mirrors, Counter Drawers. Before you decide send to **GEORGE COOK**, the well-known Chemists' Fitter, 27 Macclesfield Street, City Road, London, E.C.1.

GREAT BARGAINS IN CHEMISTS' SHOP FITTINGS.—Wall Fittings, Counters, Silent Salesmen, Counter Cases, Wall Cases, Perfume Cases and Desks, Dispensing Screens, etc., etc. **PERCY R. E. JOSEPHS**, 68 Old Street, London, E.C.1. Illustrated Catalogue post free on application. Estimates and sketches free. Telephone: Clerkenwell 0929.

LIMITED COMPANIES REGISTERED.—I have now been engaged in this work over 20 years, so you may rely that my experience in Chemist and other Companies (I take all trades) is hard to beat. Most reasonable and inclusive fee. Advice free. **A. B. SLACK**, 15 Christ Church Avenue, West Didsbury, Manchester.

LIVERPOOL CHEMISTS' FITTERS.—A Chemist's Shop in our showrooms, fully fitted, including metal front with signs, etc., and window enclosures. No Chemist should miss this Exhibition. 40 pages Illustrated Catalogue on request. **D. MATTHEWS & SON**, Shop Fitters, 14/16 Manchester Street, Liverpool. Established 1848.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, **RUDDUCK & CO.**, 219 Old Street, London, E.C.1.

SHOPFITTINGS.—Chemists requiring Shopfittings and Showcases of quality, backed by 103 years' experience, at to-day's lowest prices, should apply to **PHILIP JOSEPHS & SONS, LTD.**, 90/92 St. John Street, Clerkenwell, London, E.C.1. Telephone: Clerkenwell 2191. "Pharmacy Fitters for over a Century."

THREE heavy type Wernher Pfeleiderer Mixers (one steam jacketed), also one lighter type Mixer by Hunt; all in good condition. **CUXSON, GERRARD & CO., LTD.**, Oldbury.

£92 15s.—Set of Mahogany Fittings: 10 ft. Drug Run, 30 drawers (glass knobs and labels), shelves, cupboards and lockers; 10 ft. glass-fronted Counter, drawers at back; 8ft. Wallcase, 6 ft. Dispensing Screen, Perfumery Showcase and Desk. Illustrations on request. Would separate. **E. BERG, LTD.**, 356 Old Street, London, E.C.1.

EXCHANGE COLUMN.

WANTED.

DRUG FITTING, Counter, Show Case wanted, second-hand, each about 10 ft. 35/2, Office of this Paper.

GOWER, Chemists' Bookseller, 41 Voltaire Road, Clapham, wants Pharmaceutical Books, including B.P., Pharmaceutical Formulas, B.P.C., P.J.F., Optical Books. Cash, or exchange for new editions.

Price lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.



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